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COLUMBIA UNIVERSITY
BULLETIN OF INFORMATION
Fifty-fourth Series, No. 36
September 18, 1954

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ANNOUNCEMENT OF THE

COLLEGE OF PHYSICIANS AND SURGEONS

FACULTY OF MEDICINE
COLUMBIA UNIVERSITY

1954-1955

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET • NEW YORK 32, N.Y.

Columbia University Bulletin of Information

Fifty-fourth Series, No. 36 September 18, 1954

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The series includes the report of the President to the Trustees and the Announcements of the several Colleges and Schools relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon written application to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N.Y. Copies may be obtained in person from the Office of the Secretary, 213 Low Memorial Library.

C.U.P. 8,500—1954

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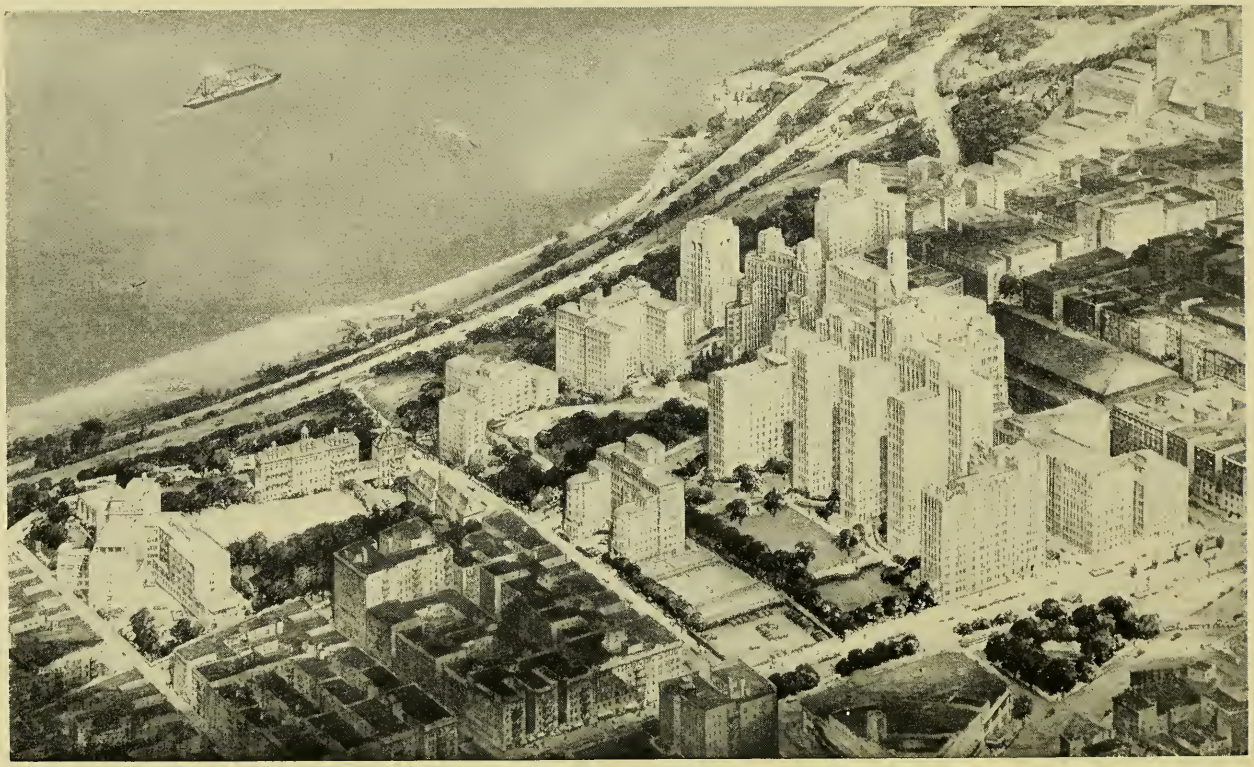
FROM RIVERSIDE DRIVE

RESIDENCE FOR MEDICAL STUDENTS



COLUMBIA-PRESBYTERIAN MEDICAL CENTER

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CONDENSED ACADEMIC CALENDAR

The complete Academic Calendar for the year 1954–1955 may be obtained from the Secretary of the University.

1954

May	20	Thursday, through May 21, Friday. Registration (including payment of fees) for the Third- and Fourth-Year Classes.
June	**1**	**Tuesday. New academic year begins for the Fourth-Year Class.**
June	**7**	**Monday. New academic year begins for the Third-Year Class.**
August	2	Monday. Last day for filing application or renewal of application for all degrees and certificates to be conferred in October. The privilege of later application may be granted on payment of a late fee.
September	9	Thursday, through September 11, Saturday. Registration (including payment of fees) for First- and Second-Year Classes.
September	**13**	**Monday. Classes begin.**
October	8	Friday. Last day for filing at the office of the Registrar essays previously approved by departments for the degree of Med.Sc.D. to be awarded in October.
November	2	Tuesday. Election Day. Holiday.
November	25	Thursday. Thanksgiving Day. Holiday.
December	1	Wednesday. Last day for filing application or renewal of application for all degrees and certificates to be awarded in February. The privilege of later application may be granted on payment of a late fee.
December	**20**	**Monday, through**

1955

January	**2**	**Sunday. Christmas holidays.**
February	22	Tuesday. Washington's Birthday. Holiday.
March	1	Tuesday. Last day for filing application or renewal of application for all degrees and certificates, except doctoral degrees, to be conferred in June. The privilege of later application may be granted on payment of a late fee.
April	1	Friday. Last day for filing at the office of the Registrar dissertations for the degree of Med.Sc.D. to be conferred in June.
		Last day for filing Cutting Fellowship applications.
April	**4**	**Monday, through April 9, Saturday. Easter holidays.**
May	23	Monday, through May 31, Tuesday. Final examinations.
May	30	Monday. Memorial Day. Holiday.
June	**1**	**Wednesday. Conferring of degrees.**

FACULTY OF MEDICINE

OFFICERS OF THE FACULTY

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I. Ogden Woodruff . . . . . *Medicine*
Edwin G. Zabriskie . . . . . *Neurology*

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Admissions

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Graduate Clinical Instruction

Associate Dean McCormack, *Chairman;* Professors Detwiler, Gregersen, Humphreys, Jacox, Kolb, Loeb, McIntosh, Merritt, Rose, Severinghaus, H. P. Smith, Taylor, and the Dean, ex officio

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Bernis D. Moss, Jr., M.S. . . . . *Business Officer*
Eileen H. Daly . . . . . *Assistant to the Registrar*

THE SCHOOL OF MEDICINE

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine in course. The first individuals to graduate in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May, 1769, and that of Doctor of Medicine in May, 1770, and May, 1771, respectively. Instruction in medicine was given until the War of the Revolution. In 1784 instruction was resumed in the academic department. Eight years later the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College, as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the College was incorporated as an integral part of the University. Since September, 1917, women have been admitted to the School on the same basis as men.

In 1945 the medical faculty was made responsible for the educational programs in Medicine, Dental and Oral Surgery, Public Health, and Nursing. At this time there were named associate deans for Medicine, Dental and Oral Surgery, Public Health, and Nursing.

The School of Medicine as a part of the Medical Center occupies a site on West 168th Street between Broadway and Fort Washington Avenue. It is housed in a seventeen-story, fire-resisting, steel, brick, and concrete building, each floor connecting with the wards and services of Presbyterian Hospital.

SCHOOL OF DENTAL AND ORAL SURGERY

The School of Dental and Oral Surgery became a part of the Faculty of Medicine on July 1, 1945.

The course in dentistry covers four academic years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of the College of Physicians and Surgeons.

For information regarding this course of study apply to the Dean's Office, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y.

SCHOOL OF PUBLIC HEALTH

The School of Public Health is part of the medical faculty of Columbia University and shares in the research and teaching resources of the Columbia-Presbyterian Medical Center and of the affiliated hospitals and clinics. It is fortunate in being able to utilize the unusually large number of extramural public health facilities in and around New York City. Collectively, these resources and affiliations make it possible to provide graduate students with an unusually complete and diversified experience in the general

organization and administration of official and nonofficial public health, hospital, and medical care agencies; in the clinical and epidemiological aspects of the acute communicable diseases, tuberculosis, and the venereal diseases; in programs in maternal and child hygiene, school health work, food control, milk sanitation, housing, the operation of water and sewerage plants, industrial hygiene and medicine, hospital administration, and vital statistics. These affiliations also make it possible to obtain for research and teaching purposes clinical and laboratory material in parasitology, tropical diseases, and medical entomology.

SCHOOL OF NURSING

The establishment in 1937 of the Presbyterian Hospital School of Nursing in the University system as the Department of Nursing of the Faculty of Medicine marked another step in the close cooperation of the two institutions in the education of personnel for the medical and allied professions. The Board of Trustees of the Presbyterian Hospital has considered the education of nurses one of its primary responsibilities since 1892, when the School of Nursing was founded under the direction of Anna C. Maxwell.

The basic course in nursing is an integral part of a larger educational program designed not only as a sound preparation for the usual practice of bedside nursing, but also as a foundation for further education in the fields of public health nursing, school and industrial nursing, nursing school administration, and other phases of nursing practice and education.

PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

The Faculty of Medicine offers a program of study leading to a Bachelor of Science degree in Physical Therapy and in Occupational Therapy or, for those who already have a Bachelor's degree, a Certificate of Proficiency in Physical Therapy or in Occupational Therapy.

Information regarding courses may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y.

ANNOUNCEMENTS

The announcements of the above schools and of the other colleges and schools of the University and of the Summer Session may be obtained without charge by writing to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N.Y.

Letters requesting further information than is contained in this announcement, and all correspondence regarding admission, should be addressed to the Dean of the Faculty of Medicine, 630 West 168th Street, New York 32, N.Y.

For information pertaining to the staffs of hospitals at the Columbia-Presbyterian Medical Center and other hospitals affiliated for teaching purposes, described on pages 6 to 9, see the annual publications of these institutions.

HOSPITAL FACILITIES

THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER

A permanent affiliation between Columbia University and Presbyterian Hospital was established in 1921. The College of Physicians and Surgeons of Columbia University in conjunction with Presbyterian Hospital and several other institutions comprising the

Medical Center now occupy a plot of land given to Columbia University and Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. The land, extending from West 165th Street to West 168th Street and from Broadway to Riverside Park, comprises about twenty acres and is readily accessible from all parts of the city.

The Medical Center was opened in the spring of 1928. The Medical Center group consists of the following units: the College of Physicians and Surgeons, School of Dental and Oral Surgery, School of Nursing, School of Public Health, Washington Heights Health and Teaching Center, New York State Psychiatric Institute, the Francis Delafield Hospital; the Presbyterian Hospital and its subdivisions: the Squier Urological Clinic, the Institute of Ophthalmology, Harkness Pavilion, Sloane Hospital for Women, Vanderbilt Clinic, Babies Hospital, Neurological Institute, the New York Orthopaedic Dispensary and Hospital, and the Mary Harkness Convalescent Home.

Presbyterian Hospital was founded in 1868. The hospital occupies a twenty-two-story building in which are the wards of the medical and surgical services, the Sloane Hospital for Women, and the Squier Urological Clinic. To provide for personal contact between doctor and patient, the hospital is divided into floor units of between sixty and seventy beds. Harkness Pavilion for private patients is connected with the main building. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the Hospital on nomination by the Trustees of the University. There are 436 (Sloane, Squier, Presbyterian) teaching beds.

Squier Urological Clinic occupies the tenth floor of the Presbyterian Hospital building and the tenth floor of Babies Hospital. There are sixty-seven beds for the care of adults and seventeen beds for babies and children. There are laboratories fully equipped to do diagnostic, X-ray, microbiological, pathological, fluoroscopic, and research work. The clinic has two large, especially equipped operating rooms. The urological outpatient department, situated in Vanderbilt Clinic, is fully equipped for cystoscopic, X-ray, and laboratory work.

The Institute of Ophthalmology was made possible by the generosity of Edward S. Harkness. The hospital and laboratories for the study of diseases of the eye are active in the training of physicians and nurses. The hospital contains forty-five ward beds.

Harkness Pavilion is available for the accommodation of private patients of the attending staff.

Sloane Hospital for Women, originally at West 59th Street and Amsterdam Avenue, was presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now occupies three floors of the Presbyterian Hospital building for ward and semiprivate patients and two floors in Harkness Pavilion for private patients. The wards of the hospital furnish 120 beds for obstetrical and gynecological patients. Patients, other than emergencies, are admitted to the hospital through Vanderbilt Clinic. The deliveries in the hospital number about thirty-five hundred a year.

Vanderbilt Clinic, presented by the Vanderbilt family to Columbia University in 1888, is the outpatient department common to all the hospitals in the Medical Center. It is a fully equipped dispensary for the sick poor. The professors of the Medical School, with their assistants, have charge of its professional services. The building is so arranged that each department has rooms for practical instruction in small sections. All modern appliances for the treatment of disease are available, so that the students can learn thoroughly the use of all methods in each of the special departments of medicine. A Group Practice Clinic, which was organized in Vanderbilt Clinic in 1946, has proved to be a forward step in the treatment of patients as well as of great value in the teaching of fourth-year medical students.

Babies Hospital provides for general medical and surgical care of infants and children up to and including twelve years of age. One floor of the hospital is devoted to the care of

private and semiprivate patients. Three floors are equipped with laboratories. Both outdoor and indoor playrooms are provided for convalescent children. The total capacity of the hospital is 163 beds. Laboratories are operated for the routine and research work of the hospital in pathology, microbiology, and chemistry. An outpatient department is maintained in Vanderbilt Clinic by the visiting and house staff of the hospital. In addition to the general medical and surgical clinics, there are special clinics for the care of premature infants and for patients suffering from heart disease, tuberculosis, epilepsy, asthma, and other diseases.

Neurological Institute, one of the first nongovernmental hospitals in this country for the treatment of nervous diseases, was founded in 1909. The original building at 149 East 67th Street was occupied continuously up to March, 1929, when the Institute was moved to the Medical Center. This has made possible the development of a broad basic program of teaching and research in neurology and in the treatment of the sick in the affiliated units of the Medical Center. The present hospital has 123 ward beds and is devoted exclusively to the treatment of diseases of the nervous system and surgical conditions of the brain and nervous system. Facilities are provided for bedside teaching in the wards for both undergraduate and graduate students.

New York Orthopaedic Dispensary and Hospital, established in 1868, was consolidated with the Presbyterian Hospital in 1945. It was moved to the Columbia-Presbyterian Medical Center in December, 1950, and is now an integral part of the Presbyterian Hospital and Medical School. Facilities are available for the care and treatment of orthopedic conditions and fractures in children and adults. Teaching laboratories are provided in the Medical School.

New York State Psychiatric Institute is a 200-bed hospital built and maintained by the state of New York, with provisions for the study and treatment of all types of psychiatric disorders. There are special facilities for the treatment of children presenting behavior and personality problems. Connected with the hospital is an active outpatient department providing diagnostic and treatment facilities. The hospital maintains special clinical and research laboratories and an extensive psychiatric library. The members of the hospital staff have teaching appointments in the Department of Psychiatry and take an active part in the instruction of the medical students.

Francis Delafield Hospital is a 300-bed hospital for the treatment and study of cancer, built and maintained by the city of New York. A program of research and of graduate and undergraduate instruction in the malignant diseases is conducted in that hospital under the terms of an agreement with the city of New York whereby Columbia University nominates the entire professional staff. The hospital is equipped with three floors of laboratories for research and has a modern outpatient department and up-to-date facilities for all methods of study and treatment of cancer.

OTHER HOSPITALS USED FOR TEACHING

Bellevue Hospital, a unit of the New York City Department of Hospitals, was founded in 1736 as a "Publick Workhouse and House of Correction of the City of New York," and received its present name in 1816. It has 3,064 beds used for the treatment of acute diseases. One of its four divisions has been utilized for instruction by the Faculty of the College of Physicians and Surgeons for over one hundred years. The staff of the service is appointed by the Commissioner of Hospitals on the nomination of Columbia University. During the fourth year, clinical clerkships are provided in general medicine, general surgery, and tuberculosis. A unit of 316 beds for chest diseases under the Columbia division provides the most up-to-date equipment and facilities for diagnosis and therapy in tuberculosis and other pulmonary disorders.

Goldwater Memorial Hospital in the Department of Hospitals of New York City was opened on Welfare Island in 1939 to fill the need for intensive research in chronic diseases and to establish adequate facilities for the care of the chronically ill. It contains 1,472 beds. The First Division of the hospital, which is under the auspices of Columbia University, contains 100 research beds and is used for instruction of undergraduate and postgraduate students in the problems of chronic disease.

Hospital for Joint Diseases, established in 1905 as a hospital for deformities and joint diseases, accommodates 362 patients, including 60 in the Country Home at Far Rockaway.

Institute for the Crippled and Disabled, founded in May, 1917, was the first modern rehabilitation center established in the United States. The program of rehabilitation at the Institute is integrated with the orthopedic, medical, and other professional activities of the Medical Center.

Margaret Hague Maternity Hospital, a unit of the Jersey City Medical Center, has a capacity of 345 teaching beds. An affiliation with Columbia University was arranged in 1935 for postgraduate instruction in obstetrics.

Mary Imogene Bassett Hospital in Cooperstown, New York, is affiliated with the University for the teaching of medicine and surgery. It has 114 beds.

Montefiore Hospital for Chronic Diseases, founded in 1884, has a capacity of 871 beds devoted to the treatment of chronic diseases. The neurological division of 160 beds is used for undergraduate instruction. Short courses for graduates are given annually in collaboration with Columbia University.

Mount Sinai Hospital, organized in 1852, accommodates 785 patients. Since 1923 the hospital has been affiliated with Columbia University for postgraduate instruction, particularly for physicians in general practice and for elective undergraduate work in pediatrics and medicine. There are 432 beds available for teaching purposes.

Roosevelt Hospital, established in 1864, is a general hospital containing 403 beds. Its facilities are used in the teaching of medicine and surgery to undergraduate and postgraduate students.

St. Luke's Hospital, established in 1850, contains 545 beds, including 80 beds for infants and children. It is affiliated with the University for the teaching of undergraduates, and all services participate in the program of graduate medical education.

Willard Parker Hospital, a unit of the New York City Department of Hospitals, established in 1886, contains 433 beds and cribs for the treatment of communicable diseases and tuberculosis. The facilities of this hospital are used for instruction of undergraduates in the diagnosis and treatment of communicable diseases.

Woman's Hospital, founded in 1855, was the first institution established by women "for the treatment of diseases peculiar to women and for the maintenance of a Lying-In Hospital." It has 198 beds. In 1937 an affiliation was arranged with Columbia University to participate in the program of training specialists in obstetrics and gynecology.

LIBRARY FACILITIES

The Medical Library occupies parts of the three lower floors in the College of Physicians and Surgeons. It provides current literature (both books and journals) for faculty and students, and it aids in research through its own collections of current and historical works, through interlibrary loans, and through its unique bibliographic service.

The Library contains approximately two hundred thousand volumes of books and journals, some five thousand pamphlets, and about two thousand lantern slides on the history of medicine. More than twenty-three hundred periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in

the schools of Medicine, Dentistry, Nursing, and Public Health and in the hospitals of the Medical Center.

The libraries on Morningside Heights, containing more than two million volumes, are open to all students of medicine. They include collections on biology, chemistry, physics, psychology, sociology, and other subjects related to medicine and supplement the special collections available in the Medical Library. Books may be borrowed for home use.

The Medical Library is open Monday through Friday, 8 A.M. to 10 P.M.; Saturday, 9 A.M. to 6 P.M.; and Sunday, 12 M. to 5 P.M.

STUDENT FACILITIES

BARD HALL

Bard Hall, the residence for students of the Medical School, is located on property of the Medical Center at 50 Haven Avenue. It is eleven stories high with three additional stories in the north wing and occupies a site overlooking Riverside Park and the Hudson River. The facilities of the Hall include lounging rooms, a dining room, a cafeteria and grillroom, a gymnasium, squash courts, and a swimming pool.

The first, second, and third floors are arranged to accommodate women students.

Rates for accommodations range from $196 to $455 for the academic year of thirty-eight weeks. First- and second-year medical student residents subscribe to a five-day-per-week, fifteen-meal prepaid board plan. The present rate is $335 for the academic year, exclusive of the Christmas and Easter holiday periods. In case of marked increase in operating costs, all rates are subject to change. Room application blanks and further information concerning rates will be furnished on request by the Bard Hall Office, 50 Haven Avenue, New York 32, N.Y.

BARD HALL CLUB

Alumni and members of the staff of the College of Physicians and Surgeons are entitled to use the facilities of Bard Hall, the residence for medical students at 50 Haven Avenue, upon payment of the membership fee of $10. The facilities include lounge rooms, dining and grillrooms, gymnasium, squash courts, and swimming pool. Application for membership and guest cards should be made at the Bard Hall desk.

STUDENT HEALTH SERVICE

Daily office hours are held by the Student Health Service for sick students in Room 2-200, Vanderbilt Clinic. Members of the Health Service are available to attend sick students who live near the Medical Center. Students requiring hospitalization will be taken care of either in the wards of the Medical Center or elsewhere under a hospitalization insurance policy.

UNIVERSITY PRIVILEGES

All students enrolled in the Medical School enjoy the privileges and facilities of the University campus, including access to the University libraries, gymnasium, Appointments Office, and other activities.

REGISTRATION OF STUDENT ORGANIZATIONS

Student organizations may be granted the privileges of the use of names in which the name of the University is embodied or suggested and the use of University rooms

for meetings and of bulletin boards for announcements only if they have filed their registration blanks, furnishing the Dean with lists of officers and other executive members, statements of purposes, copies of constitutions and bylaws, and information concerning the nature of any affiliation or connection with non-University organizations.

Blanks for the registration of student organizations, other than those for which the responsibility is assumed by a faculty or department of instruction, may be obtained from the Dean's office.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 A.M. to 5:30 P.M.; Saturdays, 8:45 A.M. to 1:30 P.M.

THE ALPHA OMEGA ALPHA HONORARY FRATERNITY

The Alpha Omega Alpha honorary fraternity is a nonsecret, fourth-year, medical honor society, membership in which is based upon scholarship and moral qualifications. A chapter of this society was organized at the College of Physicians and Surgeons in 1907.

ALUMNI ASSOCIATION OF THE COLLEGE OF PHYSICIANS AND SURGEONS

Membership in the Alumni Association of the College of Physicians and Surgeons is open to any graduate of the College in good professional standing who will notify the Secretary, Dr. T. Lloyd Tyson, 630 West 168th Street, New York 32, N.Y., of his desire to join. Annual membership dues are $5.00; life membership, $100. Application blanks for membership may be obtained from the cashier at the time of application for the degree of Doctor of Medicine.

ADMISSION, REGISTRATION, AND EXPENSES

ADMISSION TO THE FIRST YEAR

Entering classes will be enrolled in the Medical School once each year in September and will complete the prescribed course in four years. The entering class will register September 9–11, 1954. Application for admission can be made for the next incoming class only, and requests for application forms should be addressed to the Dean. Every application should be accompanied by a check or money order for $5.00, payable to Columbia University, to cover the cost of processing the application. The fee is not returnable.

The Committee on Admissions devotes months to the task of selecting a class of one hundred and twenty from a very large number of applicants. Obviously there will be many well-qualified students whom the School will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation and to the world as well, and welcomes qualified candidates from widely distributed geographical areas, provided they meet the standards of admission.

The minimum requirement for admission to the first-year class is attendance for three full academic years at an approved college of arts and sciences, although most applicants present four academic years and a baccalaureate degree. The Committee on Admissions gives priority to the more advanced students.

The liberal arts program must include English, physics, and biology, covering at least one academic year each, and courses in chemistry covering at least one and a half academic years, including a course in organic chemistry. The student may concentrate on the subject of his choice, whether in the natural sciences, social sciences, humanities, or arts, but evidence of a balanced education, rather than a preparation limited largely to the natural sciences, is preferred.

The Committee places great importance on the fact that the student has learned to think for himself, to explore, to work hard under his own initiative, to face alternatives and make decisions, and to develop a desire for a continuous program of self-education. Preference is given in the selection of students to those who have shown, in the opinion of the Committee on Admissions, high achievement in their college education, a mature sense of values and sound motivation, qualities of leadership, willingness and ability to assume responsibility, and who, therefore, have already given evidence that they are likely to become ethical, well-trained, and competent physicians.

The practice of medicine is both a science and an art, and to treat the patient as a whole man, the doctor must be a whole man himself. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and a more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education.

If a personal interview is required in connection with the application, it will be requested by the Dean's office.

ADMISSION TO ADVANCED STANDING

Only a limited number of vacancies occur during the medical course, and students can be accepted on transfer from other schools only when such vacancies do occur. Any student desiring to transfer to the upper classes of the School should communicate with the Dean to learn if vacancies exist.

ADMISSION OF FOREIGN STUDENTS

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student desiring to apply to the Medical School should communicate with the Dean.

COMBINED COURSES WITH COLUMBIA COLLEGE

Upon the completion of ninety-six points,[1] sixty-four of which must have been taken in Columbia College, including all the work prescribed for the degree in Columbia College, a student may take studies in the first year of the College of Physicians and Surgeons, provided he can satisfy the stated requirements and is accepted for admission therein. Upon the satisfactory completion of the year's work, he will receive the degree of

[1] A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week for a semester. Suitable laboratory work must be included in each of the courses in science.

Bachelor of Arts from Columbia College. No course may be counted toward a professional degree and at the same time be included among those which go to make up these ninety-six points. This professional option has been abolished for students entering Columbia College in or after September, 1954.

MASTER OF ARTS AND DOCTOR OF PHILOSOPHY

A limited number of properly qualified students may be accepted by the departments of basic science in the Medical School as graduate students and as candidates for the degrees of Master of Arts and Doctor of Philosophy.

In addition to the general faculty requirements described in the Announcement of the Faculty of Pure Science, there are various supplementary departmental requirements. Students are therefore advised to consult with, and be approved by, the executive officer of the department in which they wish to enroll before attempting certification.

GRADUATE INSTRUCTION

A graduate student who desires to engage in special clinical or investigative work under the direction of a department may, with the approval of the Dean, register for this purpose for any period of the calendar year. The University fee for each such period not longer than a Winter or Spring Session shall be $20.

REGISTRATION

Before attending courses every student must present himself at the Office of the Registrar and file a registration blank giving such information as may be required. The office is situated on the second floor of the College of Physicians and Surgeons, 630 West 168th Street, and is open from 9 A.M. to 5 P.M. daily except Saturdays and holidays, and on Saturday from 9 A.M. to 12 M. The periods set aside for registration in each session are stated in the Academic Calendar at the beginning of this Announcement. Registration at a later date is permitted only with the written consent of the Dean.

FEES

The University Statutes provide that tuition fees and the University fee are payable each session in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the Office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of $3.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration. The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following annual fees are prescribed by statute for medical students:

a) University Fee

For all students for one academic year, payable in two installments $ 40.00

b) Tuition Fee

1. For the full course in medicine for one academic year (or equivalent), payable in two installments 825.00

2. For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes.
3. Summer Session, per point $ 25.00

c) Fee for application for a degree 20.00

d) Privileges

1. Late registration or late application for a degree or certificate or for deficiency or special examinations 3.00
2. Deficiency and special examinations 3.00
3. Renewal of application for any degree or certificate 1.00

e) Medical School Athletic and Recreational Fee

This fee entitles students to use without charge the athletic and recreational facilities of Bard Hall, the residence for medical students. For all students, per academic year, payable in two installments 10.00

f) Student Health and Hospital Fee

This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service. For all students, per academic year 25.00

g) Rebates

1. The University fee, the student health and hospital fee, and the fee for application for any degree shall not be subject to rebate.
2. If a student withdraws from the School a partial return of the tuition fee may be authorized by the Registrar.
3. When a rebate is allowed, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

h) Undue breakage

While no deposit is required of students to cover laboratory material and ordinary breakage, any unusual amount of breakage will be charged.

Acceptance fee.—Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for $50, payable to Columbia University. This acceptance fee will belong to the University, and if the applicant does not register at the School for the following academic year, it will not be returned. If he registers at the School in the class to which he has been admitted, the amount of the acceptance fee will be deducted from his tuition fees.

Fee for processing of application.—A fee of $5.00 is charged to every student who applies for admission to the School of Medicine or the School of Dental and Oral Surgery. This fee covers the cost of processing the application and is not returnable.

Fees for repeated courses.—Students obliged to repeat the work for any year are required to pay the full tuition fee.

Microscopes.—All students entering the College of Physicians and Surgeons are required to provide themselves with microscopes of a satisfactory type. See page 48 for description and cost.

ESTIMATED EXPENSES FOR THE ACADEMIC YEAR

The following is an estimate of expenses of attendance at the College of Physicians and Surgeons for an academic year:

	Average	*Minimum*
Tuition and fees	$ 900	$ 900
Room	330	186
Board	600	500
Books and instruments*	200	150
Laundry	100	35
Personal expenses	350	250
TOTAL	$2,480	$2,021

GENERAL REGULATIONS

STUDENTS

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved powers of the President, in the dean of each faculty and the director of the work of each administrative board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing and not subject to discipline who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the Dean. Students withdrawing are required to notify the Registrar immediately.

The Dean may, for reasons of weight, grant a leave of absence to a student in good standing.

REQUIREMENTS FOR PROMOTION

1. A student may be advanced or readmitted to the second, third, or fourth academic year of the medical course only upon recommendation of the faculty under which he has studied during the preceding year.

* For the list of required and recommended textbooks and equipment, see pages 46–48 below.

2. The Faculty of Medicine reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions of study in this school.

Students are classified for readmission or promotion under the following headings:

I. Recommended for advancement

II. Recommended for readmission to the same class

III. Recommended neither for advancement nor readmission

A. Because of academic failure

B. Because they fall under paragraph 2 of requirements for promotion

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, work unsatisfactory.

REQUIREMENTS FOR DEGREES

The course for the degree of Doctor of Medicine consists of the subjects shown in the Summary of Studies, on pages 24 and 25, all of which are required unless otherwise stated. Elective courses are not counted for credit toward the degree.

Diplomas for the degree of Doctor of Medicine are issued at Commencement, in October, and in February, upon completion of requirements. Application for the degree should be filed as indicated in the Academic Calendar.

Diplomas for the degree of Doctor of Dental Surgery are issued at Commencement, in October, and in February, upon completion of requirements. Application for the degree should be filed as indicated in the Academic Calendar.

Diplomas for the degree of Master of Science in public health fields and the degrees of Master of Public Health, Doctor of Public Health, and Doctor of Medical Science are issued at Commencement, in October, and in February, upon completion of the requirements.

Diplomas for the degrees of Bachelor of Science in nursing, physical therapy, and occupational therapy are issued at Commencement, in October, and in February, upon completion of the requirements.

Dates for the filing of applications are announced in the Academic Calendar at the beginning of this announcement.

Announcements of the Schools of Dental and Oral Surgery and Public Health, of Nursing, and of the Courses for Physical and Occupational Therapists outline requirements for the respective degrees.

A student graduating from this medical school is eligible for admission to licensing examinations in all states and territories of the United States, providing he meets requirements for internship in those states requiring hospital experience before licensure. He is also eligible for admission to the examinations of the National Board of Medical Examiners.

GRADUATE MEDICAL EDUCATION

Opportunities for medical training beyond the undergraduate level are offered in Columbia University in two major programs. The graduate program is concerned with the training of specialists by means of hospital residencies. It is presented generally in direct continuity with sound, basic medical education, including a hospital internship which is now regarded as a part of that preparation. The postgraduate program, on the other hand, provides for the continued education of physicians in practice, and is particularly designed to enrich their preparation to meet their responsibilities to patients and the public.

THE GRADUATE PROGRAM

The graduate program includes training opportunities through fellowships at the College of Physicians and Surgeons and residencies in affiliated hospitals. Proper training for specialization includes three major elements. Primarily it provides a sufficiently long clinical experience as a resident in a hospital equipped and staffed to provide graded responsibilities under supervision of experts in the field of medicine selected. In the second place it disciplines the resident in scientific attitudes toward health and disease and enriches his clinical experience with advanced training in those medical sciences concerned largely with the field of his particular interest. Finally it provides, either in the residency experience or in a fellowship status, the opportunity to do basic or clinical research. This in turn may stimulate the type of scientific productivity worthy of recommendation for registration toward the degree of Doctor of Medical Science.

The University confers the Doctor of Medical Science (Med.Sc.D.) degree upon a few physicians who are specially qualified by a university level of training in one of the specialized fields of practice. *Only current residents appointed in one of the affiliated hospitals and Fellows registered at Columbia University are eligible for registration for the degree.* Those with proper qualifications who wish to apply for admission to register for the degree may do so on the recommendation of the executive officer of the department concerned.

The fields of graduate study are:

- Anesthesiology
- Dermatology
- Medicine
- Neurology
- Neurological surgery
- Obstetrics and gynecology
- Ophthalmology
- Orthopedic surgery
- Otolaryngology
- Pathology
- Pediatrics
- Physical medicine
- Plastic surgery
- Psychiatry
- Radiology
- Surgery
- Urology

THE POSTGRADUATE PROGRAM

A variety of short courses has been organized in hospitals and clinics affiliated with the University. Those for the general practitioner furnish opportunities for him to overcome deficiencies in his earlier training, to get abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention which he can use in his practice, and to learn the indications, limitations, and value of those technical procedures which require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is restricted to those who may reasonably be regarded as prepared to benefit by the advanced instruction.

Short courses are available at the Margaret Hague Maternity Hospital of the Jersey City Medical Center, Montefiore Hospital, Mount Sinai Hospital, the Hospital for Joint Diseases, Neurological Institute, New York State Psychiatric Institute, Presbyterian Hospital, Tuberculosis Division of Bellevue Hospital, the School of Public Health, and the College of Physicians and Surgeons. No University credit or certificates are granted for the short courses.

Further information regarding graduate and postgraduate training may be obtained by addressing the Dean of the Faculty of Medicine, Columbia University, 630 West 168th Street, New York 32, N.Y.

FELLOWSHIPS, SCHOLARSHIPS AND PRIZES

FELLOWSHIPS

Bache.—The Jules S. Bache Fellowship in obstetrics and gynecology, founded in 1945 by Mrs. Muriel Richards Pershing and Mrs. Dorothy Richards Hirshon, in memory of their grandfather, Dr. Jules S. Bache, is awarded to one or more graduate or undergraduate physicians who in the judgment of the Professor of Obstetrics and Gynecology are fitted to do special work in the field of obstetrics and gynecology.

Barnes-Foster.—The Barnes-Foster Fellowship, established in 1950, is awarded to women graduate students for work in the field of gynecology. The value of the fellowship is about $3,100.

Baruch.—The Bernard M. Baruch Fellowship in physical medicine and rehabilitation is awarded annually to two or three graduate physicians for graduate study in the field of physical medicine and rehabilitation. The annual stipend is normally $2,500 from the Bernard M. Baruch Gift to Columbia University.

Beekman.—The Gerard Beekman Fellowship, founded in 1940 by The Beekman Family Association, is awarded annually. The value of the fellowship is about $1,500.

Cutting.—The William Bayard Cutting Traveling Fellowships, founded in 1913 by Mrs. William Bayard Cutting in memory of her husband, William Bayard Cutting, LL.B., '71, A.M., '72, are awarded annually by the Trustees to men who have been in residence as graduate students and candidates for a higher degree under the Faculties of Political Science, Philosophy, or Pure Science for at least one academic year and to graduates of Columbia University in law, medicine, engineering, architecture, or music who have had at least one year of additional study as graduate students in this University. The normal stipend is $3,000.

Du Bois.—The Dr. Abram Du Bois Fellowship, endowed by the two sons and the daughter of Abram Du Bois, M.D., Class of 1835, is open to a graduate of the College of Physicians and Surgeons who has given evidence of his serious intention to follow the subject of diseases of the eye as a specialty or to pursue studies in surgical pathology. The holder will devote his time to clinical and laboratory study of his subject at home or abroad. The value of the fellowship is about $900, the annual income of the fund.

Eckhouse.—The Minnie Eckhouse Fellowship in neurological surgery enables the holder to follow the study of neurological surgery after graduation.

Ellis.—Three George W. Ellis Fellowships are awarded annually by the University Council to qualified graduates of any of the colleges of recognized rank in the state of Vermont. A holder of the fellowship who is a student in medicine may be eligible for reappointment for not more than three additional years. The value of each fellowship is about $1,500, the annual income of the fund.

Gies.—The William J. Gies Fellowship is awarded annually on the nomination of the Executive Officer of the Department of Biochemistry. The appointment is made from among students who have prerequisites for admission to graduate study in biochemistry. The value of the fellowship is about $1,800, the annual income of the fund.

Holt.—The L. Emmett Holt Fellowship in pediatrics is awarded annually by the University Council to a student of the graduating class of any medical school, or to a graduate of not more than six years' standing, to enable the recipient to study the diseases of children in this country or abroad. The value of the fellowship is about $1,500, the annual income of the fund. The holder of the fellowship is eligible for the award for a second year, but no person may hold the fellowship for more than two years.

James.—The Walter Belknap James Research Fellowship in medicine is awarded annually by the Trustees. It is open to graduates in medicine. The value of the fellowship is about $2,500, the annual income of the fund. The holder of the fellowship must pursue advanced studies in medicine either at Columbia University or elsewhere.

Koplik.—The Koplik Children's Scholarship is awarded every second year to the physician, under thirty years of age, who has shown special aptitude for original work in the investigation of the diseases of children. The value of the scholarship is about $1,100, the annual income for two years of the fund.

Lambert.—The Samuel W. and Elizabeth W. Lambert Traveling Fellowship, established in 1948, in memory of Samuel W. and Elizabeth W. Lambert, is awarded to a student who plans to specialize in surgery.

Proudfit.—The Maria McLean Proudfit Fellowship, endowed by the late Alexander Moncrief Proudfit, A.B., '92, is open to any son of native-born American parents who shall pursue advanced studies in internal medicine and who shall, while enjoying such fellowship, remain unmarried. The appointment is made every four years. The value of the fellowship is about $1,100, the income of the fund which has accrued during four years. It will be awarded next in 1957–1958.

Romaine.—The DeWitt C. Romaine Fellowship for medical research in the College of Physicians and Surgeons was established in 1946 by the estate of C. Everetta Romaine.

Tilney.—The Frederick Tilney Memorial Fund Fellowship, endowed by the Frederick Tilney Memorial Fund, Inc., enables the holder to pursue research projects in the field of neurology as may be recommended from time to time by the Executive Officer of the Department of Neurology in the College of Physicians and Surgeons, the Dean of the College of Physicians and Surgeons, and the President of the Board of Trustees of the Presbyterian Hospital.

Tucker.—The Ervin Alden Tucker Fellowship in obstetrics, bequeathed by Mrs. Ervin Alden Tucker, enables the holder to follow the study of obstetrics after graduation. The value of the fellowship is about $2,500, the annual income of the fund.

SCHOLARSHIPS

Scholarship aid is provided in varying amounts depending upon the need of the student. Such assistance is usually awarded only to civilian students who have high academic records and promise.

Applications for scholarships must be made not later than one month before the end of the academic year on blanks which will be furnished on request at the office of the Dean.

Scholarships are tenable for one academic year. Applications must be made in each year for which a scholarship is desired. Scholars will be required to pay the balance of the tuition fees and all the other fees.

Alumni.—A limited number of national scholarships are provided by gifts from the P & S Alumni Association and other contributors.

Anonymous.—The Anonymous Scholarships are awarded annually to qualified students from the income of a gift from an anonymous donor.

Blumenthal.—The George Blumenthal, Jr., Scholarships are maintained by the income of the George Blumenthal, Jr., Fund.

Butler.—The Richard Butler Scholarship, for the benefit of male students born in the state of Ohio, is open for competition to qualified candidates who propose to enter Columbia College, or any one of the Graduate Faculties of Political Science, Philosophy, and Pure Science, or any one of the professional Schools of Law, Medicine, and Engineering.

The scholarship is tenable for one academic year, with the possibility of renewal for two additional years.

Clark.—The Alonzo Clark Scholarship, founded by the will of Alonzo Clark, M.D., LL.D., for many years President of the College of Physicians and Surgeons, is awarded annually.

Class of 1890.—The Class of 1890 College of Physicians and Surgeons Scholarship Fund was given by a member of the Class of 1890, the income to be used annually for scholarship purposes.

Class of 1899.—The Class of 1899 College of Physicians and Surgeons Scholarship Fund was given by the Class of 1899 in commemoration of the thirty-fifth anniversary of their graduation, the income to provide a resident scholarship awarded annually.

Class of 1912.—The Class of 1912 College of Physicians and Surgeons Scholarship Fund was given by the Class of 1912 on the fifteenth anniversary of their graduation, the income to be used annually for scholarship purposes.

Class of 1920.—The Class of 1920 College of Physicians and Surgeons Scholarship Fund was given by the Class of 1920 on the twenty-fifth anniversary of their graduation, the income to be awarded annually for scholarship purposes.

Dennett.—The Horace Dennett Scholarships are awarded annually to students in the third and fourth years whose records for ability and scholarship give evidence of special fitness and who need financial aid to obtain an education.

Devendorf.—The David M. Devendorf Scholarship was given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861. In awarding this scholarship, preference will be given to a qualified candidate from Herkimer County, New York, preferably to a candidate from the town of Herkimer.

Doughty.—The Francis E. Doughty Scholarship was given by Miss Phoebe Caroline Swords in memory of Dr. Francis E. Doughty, Class of 1869.

Eichner.—The Joseph Herman Eichner and Hannah Eichner Scholarship, founded in 1941 by the will of Benjamin Bernard Eichner, Class of 1919, is awarded annually.

George and Charlie.—The George and Charlie Scholarship, created in 1942 in memory of George Peters and in honor of Charles Costello by the Alumni Association of the College of Physicians and Surgeons, is awarded annually.

Hanlon.—The John F. Hanlon Scholarship, established by members of the Class of 1951 in memory of their classmate, John F. Hanlon, is awarded annually.

Harsen.—Five Jacob Harsen Scholarships are awarded annually from the income of a fund established by Jacob Harsen, M.D., in 1859. Two of these scholarships are awarded to students in the second year of the medical course, two to students in the third year, and one to a student in the fourth year.

Hartley.—The Frank Hartley Scholarship was established in 1914 by friends and colleagues in memory of Dr. Frank Hartley, Class of 1880.

Hemingway.—The William H. Hemingway Scholarships, covering tuition, are awarded annually.

Huber.—The Francis Huber Scholarship, provided by the income of a gift from Francis Huber, M.D., is awarded annually to a student from any institution other than Columbia University, the College of the City of New York, Barnard College, or Hunter College.

Huber.—The Viola B. Huber Scholarship, provided by the income of a gift from Francis Huber, M.D., is awarded annually to a student from Hunter College.

Jacobi.—Four Abraham Jacobi Scholarships are awarded annually from the income of a fund given by Francis Huber, M.D., in memory of Dr. Abraham Jacobi. Two are awarded to students from Columbia University and two others to students from the College of the City of New York.

McAneny.—The Marjorie McAneny Scholarship is awarded annually from the income of a fund given by Francis Huber, M.D., to a student from Barnard College.

Markoe.—The Francis Hartman Markoe Scholarship, established by Madeline Shelton Markoe in memory of her husband, is awarded annually.

Stewart.—The Edgar Eginton Stewart, Jr., Memorial Scholarship, established by Dr. E. E. Stewart in memory of his son, is awarded annually.

Vosseler.—The Theodore L. Vosseler Scholarships, given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler, are awarded annually to qualified students, especially graduates of Colgate University.

Wechsler.—The Robert M. Wechsler Scholarship, established by Dr. I. S. Wechsler in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the Class of 1945 in memory of their classmate, is awarded annually.

Wilson.—The Dr. James Lancelot Wilson Scholarship. In the words of the donor: "the income from this fund is to be awarded each year, without regard to race, creed or color, to a deserving male or female student suffering from ischemia of opportunity and finance; such student to be selected by the College of Physicians and Surgeons."

PRIZES

Coakley.—The Coakley Memorial Prize is available for award annually by the Department of Otolaryngology to the student who, in the opinion of the Professor of Otolaryngology, has done the best work in the field for the current year. The value of the prize is $200.

Cock.—The Thomas F. Cock, M.D., Prize is available for award annually at Commencement to the student in the College of Physicians and Surgeons who submits the best thesis on puerperal fever. The value of the prize is about $70, the annual income of the fund bequeathed by Augustus C. Chapin.

Gay.—By gift there was established, in 1948, by Mrs. Frederick Parker Gay, the Frederick Parker Gay Memorial Award in memory of her husband. The award is to be given annually to a student doing outstanding work in microbiology, who is chosen by the Executive Officer of the Department of Microbiology and the Dean of the Faculty of Medicine. The annual amount of the award is about $30.

Janeway.—The Janeway Prize is available annually for award to the student graduating from the College of Physicians and Surgeons who, in the opinion of the Faculty, has ranked highest in efficiency and ability. The value of the prize is about $50, the annual income of the fund bequeathed by Matilda S. J. Wisner.

Meierhof.—The Dr. Harold Lee Meierhof Prize, founded by the parents of Dr. Harold Lee Meierhof, Class of 1917, is available for award annually by the Professor of Pathology to the student who, in the opinion of the Professor of Pathology, has done the best work in the field for the current year. The value of the prize is about $50, the annual income of the fund.

Parker.—The Joseph Garrison Parker Award is given annually to that senior student in the College of Physicians and Surgeons who best exemplifies through a continuation of his or her personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go together. The award is made possible by a gift from Dr. and Mrs. Philip Parker in memory of their son, Joseph, P & S 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts were a constant source of inspiration.

Smith.—The Joseph Mather Smith Prize is available for award annually to the graduate of the College of Physicians and Surgeons whose essay or original research in medical

subjects is deemed by the Committee of Award to be the most meritorious. The value of the prize is about $260, the annual income of the Joseph Mather Smith Prize Fund.

Stevens Triennial.—The Stevens Triennial Prize is available for award triennially to the person, not necessarily a graduate of the College of Physicians and Surgeons, who submits the best essay or original research on any medical subject. The value of the prize is about $200, the income of the fund.

Watson.—By gift there was established in 1921 the Dr. William Perry Watson Foundation in Pediatrics, the annual income of which is awarded to the member of the graduating class showing the most efficient work in the study of the diseases of infants and children during his or her regular course at the College. The value of the prize is about $260. Only such students as have been in attendance at the College for at least two years are eligible.

STUDENT LOANS

Loan funds are provided in a limited amount for the assistance of students, but it is the general policy to grant loans only to students who have satisfactorily completed at least one session of residence at the University. Application is made on a blank which may be obtained from the offices of the Dean or of the Bursar. Applications for the Winter Session should be filed by September 15; for the Spring Session, by January 15.

In memory of John Adams Mahew, Class of 1955, limited funds are available periodically for loans to medical students in emergencies. These were given primarily by classmates and friends and are administered by the Dean.

STUDENT EMPLOYMENT

The Dean's office will assist in obtaining suitable positions for medical students and graduates who are in need of employment. A list of the available positions for medical students is maintained. Because of the heavy schedule of the Medical School it is difficult for medical students to undertake part-time work outside the Medical Center during the academic year and, so far as feasible, other financial arrangements should be made.

PLAN OF UNDERGRADUATE INSTRUCTION

The curriculum is arranged with the object of providing the student with the necessary opportunities for acquiring a knowledge of the fundamental sciences in relation to medicine and the techniques of approach in medical problems. Beginning in the first two academic years with a study of the basic sciences, particularly anatomy, physiology, biochemistry, microbiology, pharmacology, and pathology, the student prepares himself for an understanding of the problems to be encountered in his later clinical work. The third and fourth academic years are devoted to mastering the methods of diagnosis and treatment of patients and to acquiring a knowledge of disease patterns, emphasizing in particular the more important fields of medicine, surgery, pediatrics, obstetrics, and psychiatry.

Throughout the entire course an effort is made to correlate the different phases of medical learning by means of "correlative" and "combined" clinics in which the various departments cooperate in the discussion and demonstration of the same and related problems and thus treat the study of medicine as a unit rather than a series of isolated branches of learning. At the same time an attempt is made to individualize instruction and to place responsibility as far as is practical upon the student for his own education. This is accomplished by means of the division of classes into small sections, by conferences, clinical clerkships, and the case method of instruction. It is the policy of the Faculty that the program shall remain flexible, in keeping with the special interests of individual students.

The preparation of the student is designed to enable him to continue his education in the hospital internship, practice of medicine, graduate studies in the specialties, or in other fields of medical endeavor.

SUMMARY OF STUDIES

The Faculty reserves the right to make such changes in the program of studies as experience may prove desirable. These changes may be made at any time.

First Year

REQUIRED COURSES		HOURS
Anatomy	Microscopic anatomy	158
Anatomy	Systematic human anatomy	303
Anatomy	Embryology	18
Anatomy	Neuroanatomy	96
Anatomy	Correlative clinics	24
Biochemistry	Introductory biochemistry	176
Physiology	Human physiology	226
Psychiatry	Introduction to human behavior	20
Public Health	Medical statistics	12
TOTAL		1,033

Second Year

Anatomy	Clinical anatomy	20
Microbiology	General microbiology	140

REQUIRED COURSES		HOURS
Microbiology	Infection, immunity, etc.	52
Public Health	Parasitic diseases	51
Medicine	Elementary physical diagnosis	88
Medicine	Elementary clinical pathology	88
Medicine	Introductory medicine	10
Neurology	Neurological examination	20
Pathology	General and special pathology	344
Pathology	Neuropathology	33
Pathology	Medicine-pathology case study	33
Pharmacology	General	121
Psychiatry	Psychopathology	10
Surgery	Introduction to surgery	11
Surgery	Principles of surgery	60
TOTAL		1,081

Third Year

Dermatology	34
Medicine	447
Neurology	38
Obstetrics and Gynecology	56
Ophthalmology	42
Orthopedic Surgery	10
Otolaryngology	40
Pediatrics	208
Psychiatry	147
Public Health	76
Radiology	24
Surgery	219
Electives	385
TOTAL	1,726

Fourth Year

Dermatology	28
Medicine	481
Neurology	30
Obstetrics and Gynecology	280
Orthopedic Surgery	30
Pharmacology	16
Pediatrics	140
Psychiatry	15
Public Health	11
Radiology	16
Surgery	292
Urology	36
Electives	280
TOTAL	1,655

DEPARTMENTS OF INSTRUCTION

For purposes of instruction the first academic year is divided into four periods; the second into trimesters; the third into quarters; and the fourth into six periods.

The academic year for the first- and second-year classes is approximately nine months in length. The third and fourth years are twelve months in length comprising a summer term, which in the third year is an elective, and the regular academic year of approximately nine months. No additional tuition is charged for the summer term.

Elective courses are arranged so that students may continue, supplement, or vary the work done in the prescribed courses. The students may arrange for elective courses at the beginning of any period and will be held responsible for attendance and the successful passing of examinations. Specially qualified students of the fourth-year class, upon nomination by the head of a department and with the permission of the Committee on Administration, may substitute elective courses or research in that department for the prescribed courses.

All students other than those regularly matriculated for the degree of Doctor of Medicine must secure permission from the instructor in charge before registering for any course.

ANATOMY

Professors: W. M. Copenhaver, S. R. Detwiler (*Executive Officer*), E. T. Engle (*Obstetrics and Gynecology*), F. A. Mettler (*Neurology*)

Associate Professors: H. O. Elftman, M. R. Murray (*Surgery*), C. A. Noback, A. E. Severinghaus (*Associate Dean*), G. K. Smelser (*Ophthalmology*)

Associate Professor of Dental Anatomy: E. Applebaum (*Dental and Oral Surgery*)

Associate Professor of Neuroanatomy: A. Elwyn

Assistant Professors: F. J. Agate, C. A. Ely, D. D. Johnson, E. B. Kaplan, W. M. Rogers, H. H. Shapiro (*Dental and Oral Surgery*)

Associates: E. A. MacDowell, E. A. Manginelli, B. Salzer

Associate in Neurology: L. V. Lyons

Instructors: M. B. Carpenter, W. G. Cooper, J. V. Gazzola, H. Gladstone, B. W. Glick, C. A. Hovde, J. K. Littman, H. Milch, M. L. Moss, S. F. Thomas (*Neurology*)

Assistants: R. C. Drelich (*Dental and Oral Surgery*), H. P. Levy (*Dental and Oral Surgery*), B. J. Serber

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Instruction required for the degree of Doctor of Medicine includes *Microscopic anatomy, Systematic human anatomy, Embryology, Neuroanatomy,* and *Correlative clinics in anatomy, biochemistry, and physiology* in the first year and *Clinical anatomy* in the second year.

An elective, *Special senses,* is open to second-, third-, and fourth-year medical students.

Research courses for qualified medical students include *Causal morphology, The endocrine glands, Anatomical research,* and *Neuroanatomy.*

Summer Session courses include *Introduction to human anatomy.*

For courses offered under the Faculty of Pure Science consult the announcement of that faculty.

ANESTHESIOLOGY

Professors: V. Apgar, E. M. Papper (*Executive Officer*)
Assistant Professors: M. J. Frumin, J. Henley, D. A. Holaday, J. Kreiselman, L. C. Mark, H. Rackow, H. Schwartz
Associates: B. R. Fink, E. C. Hanks, F. W. Hehre, Jr., S. Ngai
Instructors: C. M. Ballinger, J. Bartels, N. A. Bergman, R. A. Jacobs, M. M. Kritchman, V. Lauderdale, E. C. Nelson, R. W. Patterson, E. Salanitre

At Mary Imogene Bassett Hospital:
Associate: A. Keats

BIOCHEMISTRY

Professors: E. Chargaff, H. T. Clarke (*Executive Officer*), G. L. Foster, S. Graff, K. Meyer (*Medicine*), E. G. Miller, Jr., D. Rittenberg, D. Shemin, W. M. Sperry, H. B. Waelsch (*Psychiatry*)
Professor of Immunochemistry: M. Heidelberger (*Medicine*)
Associate Professors: Z. Dische (*Ophthalmology*), M. Karshan (*Dental and Oral Surgery*), F. E. Kendall (*Medicine*), S. Lieberman (*Obstetrics and Gynecology*), D. B. Sprinson
Assistant Professors: M. Engelman, P. Feigelson, H. B. Gillespie, T. D. Price, H. S. Simms (*Pathology*), I. B. Wilson (*Neurology*), S. Zamenhof (*Pediatrics*)
Associates: J. A. Behre, G. Y. Gottschall, C. R. Harmison (*Pathology*)
Research Associates: L. S. Dietrich (*Surgery*), D. Elson, E. Hirschberg, J. Kream, H. G. Meltzer (*Psychiatry*), O. T. Plescia (*Medicine*), V. Ross, C. S. Russell, H. J. Strecker, I. Sucher, B. Weiss (*Psychiatry*)
Instructor in Medicine: E. F. Osserman
Research Assistants: I. Danishefsky, P. Hoffman (*Medicine*), H. Sachs

At Goldwater Memorial Hospital:
Research Associates: L. Abell (*Medicine*), E. H. Mosbach (*Medicine*)
Research Assistant: A. R. Schulert (*Medicine*)

Instruction required during the first year for the degree of Doctor of Medicine includes lectures and laboratory work for fourteen weeks and *Correlative clinics in anatomy, biochemistry, and physiology.*

For courses offered under the Faculty of Pure Science consult the announcement of that faculty.

SCHOOL OF DENTAL AND ORAL SURGERY

The Announcement of the School of Dental and Oral Surgery, describing the content of the course leading to a Doctor of Dental Surgery (D.D.S.) degree, and the Announcement of Postgraduate Courses for Dentists may be obtained from the Office of the Associate Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

DERMATOLOGY

Professor: C. T. Nelson (*Executive Officer*)
Clinical Professors: G. C. Andrews, P. Gross
Associate Professor: R. W. Benham
Associate Clinical Professor: J. L. Miller
Assistant Professor of Clinical Dermatology: B. M. Kesten
Assistant Clinical Professors: L. P. Barker, G. E. Machacek, D. Moon-Adams, T. Rosenthal
Associates: H. O. Curth, W. Curth
Research Associates: H. Blank, J. H. Hill, M. Silva-Santiago
Instructors: B. J. Chester, A. N. Domonkos, G. W. Hambrick, Jr., E. F. Kelley, F. P. Lowenfish, R. M. Montgomery, J. E. Ridgway, L. Schweich, M. H. Slatkin, M. B. Sloane
Assistants: E. J. Gillespie, E. W. Jewell, C. F. Post

At Mt. Sinai Hospital:
Associate Clinical Professor: S. M. Peck

Electives for the degree of Doctor of Medicine include the following courses:

Dermatology 101T—Medical mycology. Six hours per week for 12 weeks. 3 points. Hours to be arranged.

Dermatology 219–220—Histopathology of the skin. Professor Machacek. Hours to be arranged.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

MEDICINE

Professors: F. M. Hanger, Jr., R. F. Loeb (*Executive Officer*)
Professor of Immunochemistry: M. Heidelberger
Professor of Biochemistry: K. Meyer
Professor of Clinical Medicine: D. W. Atchley
Clinical Professors: A. L. Barach, F. Dieuaide
Clinical Professor of Psychiatry: G. E. Daniels
Associate Professors: S. E. Bradley, A. Gellhorn, Y. Kneeland, Jr., I. M. London, G. H. Mudge, G. A. Perera, C. A. Ragan, J. V. Taggart
Associate Professors of Clinical Medicine: C. A. Flood, J. W. Jailer (*Obstetrics and Gynecology*), J. C. Turner, K. B. Turner, S. C. Werner
Associate Clinical Professors: F. R. Bailey, R. H. Boots, S. W. Lambert, B. J. Sanger, W. B. Sherman, H. Southworth
Assistant Professors: J. Davidson, A. I. Knowlton, J. E. McCormack, I. H. Scheinberg (*Psychiatry*), W. H. Sheldon, R. Wégria
Assistant Professor of Clinical Medicine: A. R. Lamb, Jr.
Assistant Clinical Professors: H. G. Bruenn, G. A. Carden, S. C. Fisk, W. A. Gardner,[1] M. Goldenberg, P. C. Lloyd, T. B. Russell, P. B. Sheldon, H. B. Wilcox, Jr.

[1] On leave 1954–1955.

Associates: H. Aranow, S. W. Cosgriff, L. H. Cotter, R. J. Cross, C. D. Dunham, E. E. Fishel, H. Greisman, D. L. Larson,[1] M. J. Lepore, E. N. Loeb, R. B. McKittrick, H. E. Marks, I. Mufson, K. L. Pines, C. H. Plimpton, F. A. Stevens

Associates in Microbiology: C. Howe, C. Morgan

Associates in Psychiatry: V. W. Bernard, K. Kelley, R. Moulton, E. S. Tauber

Research Associate in Biochemistry: O. J. Plescia

Instructors: J. K. Alexander, J. M. Baldwin, Jr., G. J. Beck, G. P. Bradley, D. N. Brown, H. P. Colmore, J. Corwin (*Obstetrics and Gynecology*), C. J. D'Alton, J. L. Decker, R. B. Duane, C. W. Frank, A. W. Grokoest, G. C. Hennig, H. H. Holmes, G. S. Jones, R. A. Kritzler, G. H. McCormack, Jr., J. A. L. Mathers, R. Muller, E. F. Osserman, F. M. Pruyn, H. M. Ranney, F. H. Shillito, T. L. Tyson, C. R. Wise

Instructors in Psychiatry: A. L. Brush, L. Moses

Assistants: S. F. Alexander, C. Alston, A. T. Baker, E. Bauman, J. T. Beaty, S. S. Blauner, A. E. Brewer, R. M. Carey, C. Cooke, J. A. Coss, Jr., J. Van B. Dean, P. M. Dean,[1] F. E. Demartini, H. W. Doyle, S. Dvoskin, D. Estes, W. H. Franklin, C. Gerbi, A. Gibson, G. L. Gordon,[1] J. G. Hawley, C. R. Hulse, G. A. Hyman, J. H. Laragh, E. Leifer, K. A. McClane, R. Noble, M. Rosenschein, Jr., W. H. Russell, D. H. Smith, R. J. Stock, C. J. Tyson, Jr., C. A. Vicens, J. A. Wood

Research Assistants: H. D. Grossfeld, H. B. Hamilton, M. Spooner, S. G. Traube, G. Vanderhoff

Research Assistant in Biochemistry: P. Hoffman

At Bellevue Hospital:

Professors: J. B. Amberson, A. F. Cournand, D. W. Richards

Clinical Professor: M. Dinnerstein

Associate Clinical Professor: K. J. Thomson

Assistant Professor: J. M. Jones

Assistant Professor of Clinical Medicine: M. I. Ferrer

Assistant Clinical Professors: C. R. Gross, I. Rappaport, H. McL. Riggins

Associates: A. P. Fishman, R. Harvey, L. H. Hellstrom, H. M. Hicks, A. Hoff, J. Leland, F. D. Rossomondo, W. H. Stearns, C. H. Whitney

Instructors: O. S. Baum, M. E. Campbell, H. H. Coppersmith, B. B. Eichler, W. L. Evans, H. Fong, B. B. Garthwaite, B. J. Handler, J. V. Lichtenstein, A. N. Tunick, P. Wermer

Assistants: E. Alpert, R. F. Alsop, L. F. Baum, H. S. Collins, S. N. Heller, F. S. Lansdown, M. Lewisohn, H. Perrone, H. G. Schaffeld, M. B. Smith, L. Warshaw, C. S. Yongue

At Roosevelt Hospital:

Associate Clinical Professor: J. M. Freston

Assistant Clinical Professors: A. J. Antenucci, N. S. Brown, G. Taylor

Associate: W. H. Button, Jr.

Assistant: A. C. Santy

At Goldwater Memorial Hospital:

Professor: D. Seegal

Associate Professor of Biochemistry: F. E. Kendall

Associate Clinical Professor: A. J. Patek, Jr.

Assistant Professors: Q. B. Deming, A. R. Wertheim

[1] On leave 1954–1955.

Assistant Professor of Pathology: M. Bevans
Assistant Clinical Professor: A. Steiner
Associates: H. Bickerman, H. Colcher, H. Lax
Research Associates in Biochemistry: L. L. Abell, E. H. Mosbach
Instructors: S. Dayton, A. W. Feinberg
Assistants: J. A. Epstein, R. Levin, F. P. Riley, D. Rudman, L. A. Scarrone, E. Schmatolla, S. Torosdag, M. Wachspress
Research Assistant: F. Drimmer
Research Assistant in Biochemistry: A. R. Schulert

At Mt. Sinai Hospital:

Professor: A. B. Gutman
Associate Clinical Professor: A. M. Master
Assistant Clinical Professors: D. Adlersberg, C. K. Friedberg, W. M. Hitzig, C. B. Rabin, S. Silver, L. J. Soffer, L. R. Wasserman, A. Winkelstein
Instructor: T. F. Yu
Lecturers: S. Dack, I. E. Gerber, H. L. Jaffe, F. H. King, H. Pollack, F. D. Zeman

At Montefiore Hospital:

Clinical Professors: R. G. Bloch, L. Leiter
Associate Clinical Professor: S. P. Schwartz
Assistant Clinical Professors: S. Biloon, H. Gross, K. Harpuder, A. Jezer, S. Melamed, J. B. Schwedel, L. E. Siltzbach, B. Weingarten
Instructor: I. D. Stein
Lecturers: J. Ballinger, W. Chester, M. Dolgin, A. S. Dooneief, C. D. Enselberg, M. Friedenson, E. Goldberger, J. Harkavy, B. E. Jacobson, D. Laszlo, H. I. Lippman, H. Rifkin, M. Rodstein, I. L. Rubin, B. Scholder, V. Silvestri, L. Spiegel, L. Tarr, A. Weiss, R. E. Weston, D. Young

At Mary Imogene Bassett Hospital:

Clinical Professor: J. Bordley III
Associate Clinical Professor: J. W. Ferrebee
Assistant Clinical Professor: F. F. Harrison
Associate: G. L. Curran
Instructors: N. P. Hill, J. C. Mithoefer, W. H. Mook

At St. Luke's Hospital:

Assistant Clinical Professors: G. J. Coffin, W. B. Farnum, A. C. Herring, O. R. Jones
Associate: W. J. Pyles
Instructors: C. G. Adsit, A. L. L. Bell, Jr., J. G. Hilton, J. H. Keating, Jr., R. P. Keating, F. J. Schilling, T. B. Van Itallie

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Instruction required for the degree of Doctor of Medicine is as follows:

Second year: *Physical diagnosis, Clinical pathology,* and *Introductory medicine.*
Third year: *Ward clinical clerkships, Medical lectures,* and *Combined clinics.*
Fourth year: *Outpatient clinical clerkships, Medical therapeutics and applied pharmacology, Forensic medicine and medical jurisprudence* (given by the Department of Public Health), *Clinical clerkships on the wards of Bellevue Hospital, Clinical clerkships in chronic diseases of the chest at Bellevue Hospital, Medical and surgical conferences at Bellevue Hospital.*

Electives for the degree of Doctor of Medicine include:

A. *Special clinics at Presbyterian Hospital* for third- and fourth-year students.

Students desiring elective work in these clinics should make application one week before the beginning of the quarter to the secretary of the Department of Medicine. The third-year clinical clerkship in medicine is prerequisite for these elective courses.

Morning Clinics:

1. *Diabetes.* M.W.F. Floor 2. Limited to six students each morning. Professor Sanger and Dr. Marks.
2. *Thyroid.* F. Floor 10. Limited to six students. Professors Sloan (*from Surgery*) and Werner and Dr. Aranow.
3. *Nephritis and hypertension.* Tu. Floor 2. Limited to four students. Professor Bradley.

Afternoon Clinics:

4. *Allergy.* M. Tu. Th. F. Floor 10. Limited to two students each morning. Professor Sherman.
5. *Cardiac.* Tu. Floor 10. Professor K. Turner.
6. *Arthritis.* W. F. Floor 10. Limited to four students daily. Professors Boots and Ragan.
7. *Combined endocrine.* Tu. Floor 3. Limited to six students. Professor Werner and associates.
8. *Gastrointestinal.* M. W. F. Floor 3. Limited to two students daily. Professor Flood.

B. *Differential diagnosis.* Fourth Year. Professor Hanger.

C. *Elective clinical clerkship.* Two months. Fourth year.

The student elects a combined medicine and surgery clerkship in one of the following hospitals: Roosevelt, St. Luke's, Mary Imogene Bassett, or Goldwater (straight medical clerkship).

D. *Elective course in cardiorespiratory physiology.* Fifteen lectures, all classes. Professors Cournand and Richards.

E. *Elective course in clinical biochemistry* (Public Health Research Institute of the City of New York). Alternate years. Fifteen lectures, all classes. Professor Stetten.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

MICROBIOLOGY

Professors: E. A. Kabat (*Neurology*), H. M. Rose (*Executive Officer*)
Professor of Bacteriology: C. W. Jungeblut
Associate Professors: S. P. Halbert (*Ophthalmology*), D. H. Moore, B. C. Seegal
Visiting Associate Professor: L. Dmochowski
Assistant Professors: N. Kopeloff (*Psychiatry*), J. D. MacLennan (*Surgery*), H. Seneca (*Urology*)
Associates: S. M. Beiser, S. A. Ellison, B. F. Erlanger, M. Holden, C. Howe (*Medicine*), D. Locatcher-Khorazo (*Ophthalmology*), C. Morgan (*Medicine*), S. W. Tanenbaum
Research Associates: M. E. Carsten (*Neurology*), I. M. Mountain
Instructor: A. W. Knox
Research Assistants: M. H. G. Friedlaender, S. Leskowitz (*Neurology*)

At Mt. Sinai Hospital:

Professor: G. Shwartzman

Instruction required for the degree of Doctor of Medicine includes *General medical microbiology and immunology* and *The principles of microbiology, immunology, epidemiology and the specific diagnosis and therapy of infectious diseases.*

Electives for the degree of Doctor of Medicine include the following courses:

Microbiology 118T—Medical mycology. Five hours per week for 12 weeks. 3 pts. Professor Benham (*from Dermatology*). Hours to be arranged.

Microbiology 251FST—Research in problems of immunology and immunochemistry. Laboratory. 2 to 6 pts. each trimester. Under the direction of the staff. Hours to be arranged.

For courses offered under the Faculty of Pure Science consult the announcement of that faculty.

NEUROLOGICAL SURGERY

Professor: J. L. Pool (*Executive Officer*)
Professor of Clinical Neurological Surgery: J. E. Scarff
Assistant Professor: J. B. Campbell
Assistant Professors of Clinical Neurological Surgery: F. Cramer, L. A. Mount, J. Ransohoff, E. B. Schlesinger
Associate: T. J. Bridges
Research Assistant: N. Aronson

NEUROLOGY

Professor: H. H. Merritt (*Executive Officer*)
Professor of Neuropathology: A. Wolf
Professor of Anatomy: F. A. Mettler
Professor of Microbiology: E. A. Kabat
Clinical Professor: L. B. Chaney
Associate Professors: H. Grundfest, P. F. A. Hoefer, D. Nachmansohn
Associate Professor of Clinical Neurology: C. T. Vicale
Associate Professor of Neuropathology: D. Cowen
Associate Clinical Professor: I. J. Sands
Assistant Professors: S. Carter, W. F. Caveness, E. S. Goldensohn, D. Sciarra
Assistant Professor of Biochemistry: I. B. Wilson
Assistant Professors of Clinical Neurology: E. Herz, R. J. Masselink, L. A. Salmon, M. D. Yahr
Assistant Professor of Neuropathology: I. H. Feigin
Assistant Clinical Professors: A. M. Frantz, C. C. Hare, G. H. Hyslop, J. M. McKinney, M. Silbermann, H. G. Weitzen, J. R. Whittier
Associates: F. Ansanelli, K. Constable, S. M. Dillenberg, L. J. Doshay, M. Frocht, A. Gallinek, L. V. Lyons (*Anatomy*), J. Moldaver, R. Pietri, S. Reback, F. T. Zimmerman
Associate in Neuropathology: S. M. Aronson

Research Associates: M. Eisenberg, S. Ginsburg, N. Kline, J. A. Reilly, Jr., W. Schleyer, A. Weber

Research Associate in Microbiology: M. E. Carsten

Instructors: W. Amols, J. F. Culleton, Z. DeFries, R. Fishman, J. L. Greene, W. Hochstetter, C. G. McKendree, A. A. Rosner

Instructor in Anatomy: S. F. Thomas

Assistants: F. P. Iorio, S. Lesse, C. M. Poser, H. Potter

Research Assistants: M. Altamirano, P. W. Bernstein, B. B. Burgemeister, I. A. Freiberger, C. Y. Kao, H. R. Liss, E. K. Meislich, F. L. Orioli, Y. Taketomo, L. Zablow

Research Assistant in Microbiology: S. Leskowitz

At Montefiore Hospital:

Professor of Clinical Neurology: T. J. C. von Storch

Associate Clinical Professor: A. P. Friedman

Assistant Clinical Professors: S. Elpern, M. J. Madonick

Associates: M. G. Netsky, F. D. Stern, D. K. Ziegler

Instructors: S. Maringer, R. B. Miller, G. F. Osler, J. H. Scharf, K. Strully

Assistants: K. M. Gang, R. J. Greenberg, F. Morrell, A. M. Schwartz, M. J. Tissenbaum

At Mt. Sinai Hospital:

Assistant Clinical Professor: R. M. Brickner

Lecturer: H. Strauss

Instruction required for the degree of Doctor of Medicine includes *Diseases of the nervous system* in the third year at Montefiore Hospital and Neurological Institute; and *Pathologic physiology of the nervous system* and *Clinical lectures and demonstrations in neurology* for 20 weeks in the fourth year.

The elective consists of *Ward clinical clerkships,* offered five days each week for eight weeks in the third year.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

NURSING

See the Announcement of the Department of Nursing.

OBSTETRICS AND GYNECOLOGY

Professor: H. C. Taylor (*Executive Officer*)

Professor of Clinical Obstetrics and Gynecology: D. A. D'Esopo

Professor of Anatomy: E. T. Engle

Clinical Professors: E. E. Bunzel, V. C. Damon, H. Halsted

Associate Professor of Biochemistry: S. Lieberman

Associate Professors of Clinical Obstetrics and Gynecology: S. M. Bysshe, S. B. Gusberg, C. M. Steer

Associate Professor of Clinical Medicine: J. W. Jailer

Assistant Professor: A. A. Plentl

Assistant Professors of Clinical Obstetrics and Gynecology: W. V. Cavanagh, A. J. B. Tillman

Assistant Clinical Professor: E. W. Munnell

Associates: J. R. Montgomery, C. P. O'Connell, J. B. Rearden, L. B. Shettles, H. Speert, S. W. Williamson

Research Associates: H. de Roetth, M. E. Long, L. L. Phillips, D.V.N. Reddy, S. G. Waelsch, U. Weiss

Instructors: A. N. Fenton, D. J. Grandin, M. D. Laird, D. B. Moore, A. L. S. Southam, H. M. M. Tovell

Instructor in Medicine: J. Corwin

Instructor in Psychiatry: L. Gidro-Frank

Assistant: T. J. Parks

Research Assistants: M. T. Bradshaw, J. P. Rosselet, S. Solomon

At Margaret Hague Maternity Hospital:

Clinical Professor of Obstetrics: S. A. Cosgrove

Assistant Clinical Professors: R. A. Cosgrove, J. N. Connell, E. G. Waters

At Mt. Sinai Hospital:

Clinical Professor: A. F. Guttmacher

Clinical Professor of Gynecology: M. A. Goldberger

At Woman's Hospital:

Clinical Professor: A. H. Aldridge

Assistant Clinical Professor: R. A. Hurd

At Roosevelt Hospital:

Clinical Professor of Gynecology: T. C. Peightal

Instruction required for the degree of Doctor of Medicine includes *Theory and practice of obstetrics and gynecology* by lectures and demonstrations in the third year and *Practical work in obstetrics and gynecology* in the fourth year.

The *Practical work in obstetrics and gynecology* class is divided into six sections, each section receiving eight and one-half weeks of instruction. During this period, each section is divided into three groups:

1. *Obstetrics: Sloane Hospital for Women.* Day and night duty, during which time lodging is furnished by the hospital. Under the direction of the attending staff of the hospital, ward rounds, quizzes and manikin demonstration, actual delivery of cases, work in the *antepartum* clinic, care of the new-born.
2. *Obstetrics at Sloane Section of Vanderbilt Clinic.* Prenatal and postnatal clinics.
3. *Gynecological Service: Sloane Hospital for Women and Sloane Section of Vanderbilt Clinic.* Students act as clinical clerks in the wards of the hospital and under the direction of the attending staff follow the preoperative, operative, and postoperative care of gynecological cases. Instruction in gynecological diagnosis is given in Vanderbilt Clinic.

Obstetrical and gynecological pathology is given as part of the work of all three groups.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

OPHTHALMOLOGY

Professor: J. H. Dunnington (*Executive Officer*)

Professor of Clinical Ophthalmology: G. M. Bruce

Clinical Professors: A. B. Reese, M. C. Wheeler

Associate Professor: L. von Sallmann

Associate Professor of Anatomy: G. K. Smelser

Associate Professor of Biochemistry: Z. Dische

Associate Professor of Microbiology: S. P. Halbert

Associate Professors of Clinical Ophthalmology: J. P. Macnie, R. L. Pfeiffer (*Radiology*)
Associate Clinical Professors: W. S. Knighton, C. A. Perera
Assistant Clinical Professor: R. N. Berke
Associates: H. D. H. Brown, F. D. Carroll, J. V. Flack, F. Payne, J. A. C. Wadsworth
Associate in Microbiology: D. Locatcher-Khorazo
Research Associates: O. Lowenstein, G. Rand
Instructors: C. G. Barer, E. G. Bethke, R. R. Chace, G. Clark, R. M. Day, P. Knapp, G. R. Merriam, V. Ozanics, E. F. Regan, M. C. Rittler, D. E. Tinkess
Assistants: R. C. Collins, A. de Roetth, Jr., A. Forrest, I. S. Jones
Research Assistants: E. Borenfreund, M. Powers
Consultant: H. Martin

Instruction required for the degree of Doctor of Medicine includes *Practical instruction in ophthalmology* and *Clinical lectures on the diseases of the eye* in the third year.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

ORTHOPEDIC SURGERY

Professor: A. de F. Smith (*Executive Officer*)
Professors of Clinical Orthopedic Surgery: H. Hallock, H. L. McLaughlin, F. E. Stinchfield
Clinical Professor: L. A. Lantzounis
Associate Professor of Clinical Orthopedic Surgery: F. M. Smith
Assistant Professors of Clinical Orthopedic Surgery: S. R. Gaston, M. B. Watkins
Assistant Clinical Professors: E. C. Bragg, W. H. von Lackum
Instructors: G. B. Ambrose, R. E. Carroll, F. S. Craig, A. Garcia, D. K. McElroy, C. S. Neer II, C. T. Ryder
Research Assistant: P. J. Goettler

Instruction required for the degree of Doctor of Medicine includes *Clinic lectures on orthopedic surgery* in the third year and *Practical instruction in orthopedic surgery* for twelve days during the fourth year.

The teaching in *Fractures and dislocations* is divided as follows:

Second year: *Process of repair in fractures.* Six hours as part of Surgery.
Third year: *Clinical clerkships* (*orthopedics and fractures*). Two and a half weeks as part of Surgery.

OTOLARYNGOLOGY

Professor: E. P. Fowler, Jr. (*Executive Officer*)
Clinical Professor: DeG. Woodman
Associate Clinical Professors: F. Altmann, D. C. Baker, Jr.
Assistant Professor of Clinical Otolaryngology: G. V. Browne
Assistant Clinical Professor: J. Waltner
Associates: E. B. Bilchick, H. S. Friedman

Instructors: S. R. Daly, W. M. Glass, R. M. Hui, A. R. Kolar, P. Lindenberg, B. Marquit, P. D. Westerhoff

Lecturers: M. Bergman, J. Eisenson, D. M. Markle

Instruction required for the degree of Doctor of Medicine includes *Practical instruction in the diseases of the ear, nose, and throat; Lectures in otolaryngology;* and *Operations and bedside instruction in laryngology, otology, and rhinology* during the third year.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

PATHOLOGY

Professor: H. P. Smith (*Executive Officer*)

Professor of Neuropathology: A. Wolf

Associate Professors: D. H. Andersen (*Pediatrics*), R. W. Coon, J. E. Flynn, C. Z. Garber, E. H. Sproul, W. B. Stewart

Associate Professor of Neuropathology: D. Cowen

Associate Professor of Oral Pathology: L. Cahn (*Dental and Oral Surgery*)

Assistant Professors: G. Fine, D. M. Spain, T. F. Zucker

Assistant Professor of Biochemistry: H. S. Simms

Assistant Professors of Neuropathology: I. H. Feigin, L. Roizin (*Psychiatry*)

Assistant Professor of Oral Pathology: H. A. Bartels (*Dental and Oral Surgery*)

Associate: B. N. Berg

Associate in Biochemistry: C. R. Harmison

Associate in Neuropathology: S. M. Aronson

Research Associates: H. Kaunitz, L. Zucker

Instructors: W. A. Blanc, R. S. Gambino, D. W. King, V. P. Perna, E. T. Standley, W. Yakovac

Instructors in Neuropathology: L. M. Geller, M. Kaufman

Instructor in Oral Pathology: M. Lunin

Assistants: D. W. Benninghoff, R. Fowler

Lecturer in Medical Illustrating: A. Feinberg

At Bellevue Hospital:

Associate Professor: M. Kuschner

Lecturer: E. M. Medlar

At Goldwater Memorial Hospital:

Assistant Professor: M. Bevans (*Medicine*)

At Montefiore Hospital:

Professor: H. M. Zimmerman

Instructor: J. I. Berkman

At Mt. Sinai Hospital:

Professor: P. Klemperer

Associate Professor: S. Otani

Lecturer: A. I. Bernheim

At Roosevelt Hospital:
Assistant Professors: W. W. Brandes, B. Kalfayan

At St. Luke's Hospital:
Assistant Professor: C. F. Begg
Instructor: P. S. Vassar

At White Plains Hospital:
Associate Professor: H. D. Kesten

Instruction required for the degree of Doctor of Medicine includes *General and special pathology, Neuropathology,* and *Medicine-pathology case study* in the second year.

Electives include *Research in pathology, Research in chemical pathology* (hours to be arranged), and *Advanced pathology.*

COURSES FOR SPECIAL STUDENTS

Pathology 255–256—Medical illustrating. 4 pts. Mr. Feinberg.
M. Tu. W. Th. 9–12.

Instruction is given in the mediums best suited for medical illustration, namely: drawings in crayon for half-tone reproduction, in pen and ink, water-color painting, and the making of diagrams and charts. Studies of fresh material from autopsies, of preserved specimens from the pathological museum, and of microscopic sections of normal and pathological tissues.

Prerequisite: Graduation from a recognized art school or its equivalent.

Pathology 255a–256a—Medical illustrating. 4 pts. Mr. Feinberg.
M. Tu. W. Th. 9–12.

Prerequisite: *Pathology 255–256.*

For graduate courses for physicans communicate with the Dean's office, 630 West 168th Street.

For courses offered under the Faculty of Pure Science consult the announcement of that faculty.

PEDIATRICS

Professor: R. McIntosh (*Executive Officer*)
Professor of Radiology: J. Caffey
Associate Professor: H. E. Alexander
Associate Professor of Pathology: D. H. Andersen
Assistant Professors: P. A. di Sant' Agnese, C. M. Riley
Assistant Professor of Biochemistry: S. Zamenhof
Assistant Clinical Professors: H. S. Altman, J. M. Brush, J. T. Howell, Jr., A. G. Langmann, C. L. Wood
Associates: R. W. Culbert, D. S. Damrosch, R. C. Harris, R. E. Moloshok, W. A. Silverman, J. A. Wolff
Associates in Psychiatry: H. Bruch, J. P. Lambert
Research Associate: K. Sprunt
Instructors: H. Anfanger, W. A. Bauman, L. A. Boker, W. R. Kessler, R. M. Mickey, M. R. Richards, M. H. Samuels, M. Singer, P. S. Strong, F. H. von Hofe, D. A. Wilcox, A. G. Wilson, P. E. Wilson

Instructors in Psychiatry: R. Gilder, Jr., C. P. Neumann, E. E. Welsch
Assistants: A. F. Ackerman, J. B. Ahouse, B. C. Berliner, S. Blatman, L. J. Cassard, J. A. Costa, R. A. Davis, L. G. M. Fox, O. L. Frick, B. German, D. C. Hackett, W. E. Homan,[1] P. Hudson, M. H. Jacobs, R. E. Jennings, J. E. Kalbacher, A. A. Macdonald, J. H. Maroney, D. J. Melia, K. M. Metcalf, W. L. Mitchell, D. R. Reed, A. P. Rosen, W. R. Smith, D. Stiles, V. A. Strong, E. Ufford, R. West,[1] R. C. Wheeler
Assistant in Psychiatry: M. M. Lawrence
Research Assistants: P. H. Boyer, G. Leidy

At Mt. Sinai Hospital:
Clinical Professor: H. L. Hodes
Associate Clinical Professor: S. Karelitz
Instructors: S. Blumenthal, A. L. Florman, D. Gribetz, A. Y. Sweet

At Willard Parker Hospital:
Instructors: J. Goldstein, J. F. Landon, M. Lenarsky

At Mary Imogene Bassett Hospital:
Associate Clinical Professor: T. C. Goodwin

Instruction required for the degree of Doctor of Medicine includes *Introduction to pediatrics* and *Bedside instruction in the contagious diseases of children* (at Willard Parker Hospital) in the third year and *Clinical clerkship in pediatrics* in the fourth year.

The elective consists of a *Clinical clerkship* of one month in the fourth year at Mount Sinai Hospital.

PHARMACOLOGY

Professors: H. B. van Dyke (*Executive Officer*), A. Gilman
Assistant Professor: H. J. Bartelstone
Associates: P. Brazeau, F. G. Hofmann

Instruction required for the degree of Doctor of Medicine includes *General and special pharmacology* in the second year.

Electives include *Medical therapeutics and applied pharmacology* in the third year, *Special methods in pharmacology, Research in pharmacology,* and a *Seminar in pharmacology.*

For courses offered under the Faculty of Pure Science consult the announcement of that faculty.

PHYSICAL MEDICINE AND REHABILITATION

Professor: R. C. Darling (*Executive Officer*)
Professor of Physical Medicine: W. B. Snow
Associate Professor of Rehabilitation Medicine: E. E. Gordon
Assistant Clinical Professors: A. D. Gurewitsch, M. Hoberman

[1] On leave 1954–1955.

Instructors: C. L. DeVictoria, S. Weber
Research Assistant: M. J. Lota
Assistant Professor and Director of Training for Physical Therapists: M. E. Callahan
Assistant Professor and Director of Training for Occupational Therapists: M. L. Franciscus
Instructor and Associate Director of Training for Physical Therapists: G. L. Jameson
Instructor and Associate Director of Training for Occupational Therapists: V. T. Kilburn
Associate in Physical Therapy: G. B. Finnerty
Associate in Occupational Therapy: E. Brokaw
Instructors in Physical Therapy: M. S. Cover, E. Hansen, H. S. Svirsky, B. Talmud
Instructors in Occupational Therapy: M. Abbott, I. P. Robinault, T. L. Wellerson, H. P. White
Assistant in Occupational Therapy: N. D. Berryman
Research Assistant in Physical Therapy: H. Vanderwalde

At Mt. Sinai Hospital:
Assistant Clinical Professor: W. Bierman

See Announcement of Courses for Physical Therapists and Occupational Therapists.

PHYSIOLOGY

Professors: M. I. Gregersen (*Executive Officer*), J. L. Nickerson, W. S. Root, S. C. Wang
Associate Professors: T. H. Allen, W. W. Walcott
Assistant Professors: L. J. Cizek, N. A. DiSalvo, W. L. Nastuk
Assistant Clinical Professor: H. A. Abramson
Instructor: H. Sear
Research Assistant: C. Pallavicini

At Mt. Sinai Hospital:
Assistant Clinical Professor: F. Hollander

Instruction required for the degree of Doctor of Medicine includes *Human physiology* and *Correlative clinics* in the first year.

The following electives are offered: *Surface chemistry by electrokinetic methods; Biophysics, I: electrophysiological methods; Circulation; Mammalian operative technique; Respiration and metabolism; Sensory physiology; Biophysics, II: physiological application of nuclear physics; Central nervous system; Fluid and electrolyte balance; Physiology of muscle and nerve;* and *Research in physiology.*

For courses offered under the Faculty of Pure Science consult the announcement of that faculty.

PSYCHIATRY

Professors: L. C. Kolb (*Executive Officer*), W. S. Langford
Professors of Biochemistry: W. M. Sperry, H. Waelsch
Clinical Professors: G. E. Daniels (*Medicine*), A. Ferraro, A. Kardiner, R. B. McGraw, S. Rado

Associate Professor: I. H. MacKinnon
Assistant Professors: P. H. Hoch, W. A. Horwitz, F. J. Kallmann, P. Polatin
Assistant Professor of Microbiology: N. Kopeloff
Assistant Professor of Neuropathology: L. Roizin
Assistant Professor of Medicine: J. H. Scheinberg
Assistant Clinical Professors: N. Ackerman, B. H. Balser, H. R. Klein, L. G. Lowrey
Associates: V. W. Bernard (*Medicine*), H. Bruch (*Pediatrics*), R. D. Craig, S. W. Ginsburg, G. S. Goldman, R. R. Harlow, A. Karush, K. Kelley (*Medicine*), J. P. Lambert (*Pediatrics*), M. S. Mahler, R. Moulton (*Medicine*), L. Ovesey, B. L. Pacella, Z. A. L. Piotrowski (*Psychometrics*), M. Sapirstein, A. Schick, W. A. Schonfeld, E. S. Tauber (*Medicine*), R. Taylor, A. Zeckel
Research Associates: J. P. Cattell, G. Eros, A. Falek, M. Gold, L. B. Kalinowsky, L. M. Kopeloff, A. L. Lajtha, B. A. Pasquarelli, H. Pennes, E. I. Strongin
Research Associates in Biochemistry: H. L. Meltzer, B. Weiss
Instructors: A. B. Adam, A. L. Brush (*Medicine*), R. J. Carotenuto, H. Chartock, L. Cobliner, W. H. Cox, Jr., O. Frankel, L. Gidro-Frank, R. Gilder, Jr. (*Pediatrics*), B. C. Glueck, Jr., H. L. Hall, G. A. Jervis, S. Karlen, S. R. Lesser, J. E. McGowan, H. McHugh, R. J. Mearin, J. A. M. Meerloo, L. Moses (*Medicine*), M. Naftalin, J. F. Oliven, E. L. Priest, P. E. Ryberg, L. Scheinman, M. Schreiber, R. Sobel, S. Stirt, M. O. Strahl, J. Weber, E. E. Welsch (*Pediatrics*)
Assistants: A. M. Bottino, W. A. Brooks, B. Buchenholz, J. Cederquist, R. W. W. Evans, M. L. Gassman, I. B. Harrison, C. Hogan, J. Kennedy, M. M. Lawrence (*Pediatrics*), J. Lubart, I. M. Marcus, S. E. Post,[1] DeS. F. Philpot, Jr., D. Shapiro
Research Assistants: G. S. Baroff, B. R. Easser, M. Glusman, A. Miranda-Rivera, D. Sank, E. Schneider, D. J. B. Schwartz, W. Stewart
Lecturer: D. M. Levy[1]

At Mt. Sinai Hospital:
Clinical Professor: R. Kaufman
Lecturers: C. Fisher, P. Goolker, H. I. Weinstock

At Institute for the Crippled and Disabled:
Instructors: L. A. Gelb, J. D. Sullivan, A. B. Szalita-Pemow

Instruction required for the degree of Doctor of Medicine includes *Introduction to human behavior* in the first year, *Psychopathology* in the second year, *Clinical psychiatry* in the third year, and *Clinical psychiatry: medical, sociological, and legal aspects* in the fourth year.

Electives include *Psychometric methods, Research in psychiatry,* and *Ward clinical clerkships* (five days a week for eight weeks in the third year).

For graduate courses communicate with the Dean's office, 630 West 168th Street.

SCHOOL OF PUBLIC HEALTH

Public Health Practice:
Professor: H. S. Mustard
Associate Professors: M. W. Barnard, H. E. Hilleboe

[1] On leave 1954–1955.

Assistant Professors: M. Antell, A. J. Beckmann
Assistant Professor of Dental Public Health Practice: N. W. Chilton
Administrative Assistant: L. Gerold
Lecturers: D. B. Ast, D. Bergsma, E. G. Brown, H. R. Edwards, W. A. Holla, J. H. Kinnaman, P. J. Rafle, E. Sessoms
Lecturer in Forensic Medicine: B. M. Vance
Lecturer in Medical Jurisprudence: B. Werne
Lecturer in Dental Public Health Practice: H. Strusser

Administrative Medicine:
Professor: E. D. Barnett
Assistant Professors: H. B. Makover, G. A. Silver
Associate Professors of Hospital Administration: B. C. MacLean, J. S. Parke
Research Associates: J. P. Delaney, B. B. Palmer
Research Assistants: R. H. Dickerson, N. M. Weiss
Instructor: G. W. Melcher, Jr.
Lecturer: G. Baehr
Lecturers in Hospital Administration: J. A. Binkert, E. M. Bluestone, J. W. Degen, A. E. Grosso, E. Hayt, R. N. Kerst, J. Masur, E. A. Mosso, C. G. Roswell, R. P. Sloan, J. E. Snyder, J. G. Steinle, D. K. Tuller

Public Health Education:
Professor: G. Rosen
Lecturers: R. T. Fisher, E. M. Gruenberg, G. W. Larimore, S. S. Lifson, I. S. Shapiro

Biostatistics:
Professor: J. W. Fertig
Instructors: A. Baronovsky, A. P. Berger
Assistant: P. Michelsen
Lecturers: C. L. Erhardt, J. E. Silson

Epidemiology:
Professor: E. G. Clark
Associate Professor: S. Frant
Assistant Professors: M. Greenberg, R. L. Vought
Instructor: A. C. Gelman
Research Assistant: J. Katz
Lecturers: L. Schneider, R. F. Sikes

Occupational Medicine:
Professor: L. J. Goldwater
Associate Professor: I. R. Tabershaw
Associate Professor of Nutrition: N. Jolliffe
Assistant Professor of Nutrition: M. E. Shils
Assistant Professor: B. Mintz
Lecturers in Nutrition: R. S. Goodhart, G. G. Mudge

Sanitary Science:
Associate Professor: A. R. Jacobson
Lecturer: H. B. Robinson

Tropical Medicine:

Professor of Parasitology: H. W. Brown (*Director and Executive Officer*)
Associate Professor of Medical Entomology: R. W. Williams
Assistant Professor: H. B. Shookhoff
Assistant Professor of Parasitology: K. L. Hussey
Research Associate in Parasitology: K. F. Chan
Instructors: K. G. Dwork, M. M. Sterman

Instruction required for the degree of Doctor of Medicine includes *Parasitic diseases: the protozoa, helminths, and arthropods of medical significance* in the second year; *Statistical analysis of medical and public health data,* and *Preventive medicine and public health* in the third year; and *Preventive medicine and public health* during the fourth year.

The School of Public Health of the Faculty of Medicine provides a wide variety of electives in public health practice, biostatistics, epidemiology, occupational medicine, sanitary science, etc. Fourth-year students interested in pursuing further studies in preventive medicine and public health should consult the Announcement of the School of Public Health and confer with the professor concerned.

The Announcement of the School of Public Health, describing courses leading to the degrees of Master of Science in the field of public health, Master of Public Health, and Doctor of Public Health, may be obtained at the School of Public Health, 600 West 168th Street, New York 32, N.Y.

RADIOLOGY

Professors: J. Caffey, G. Failla (*Physics*), H. W. Jacox (*Acting Executive Officer*), E. H. Quimby (*Physics*)
Professor of Clinical Radiology: M. Lenz
Associate Professors: M. M. Kligerman, H. H. Rossi (*Physics*), R. Rugh (*Biology*)
Associate Professor of Clinical Radiology: C. W. Schwartz
Associate Professor of Clinical Ophthalmology: R. L. Pfeiffer
Assistant Professors: A. L. Bachman, R. J. Guttmann, G. S. Schwarz, J. M. Taveras, J. S. Wells, R. Wigh
Associate: C. B. Braestrup
Instructors: D. J. Barnett, R. G. Bogen, F. M. Cummins, C. J. Dalton, J. Eliasoph, A. R. Galgano, S. A. Lough, J. Mandell, F. Reed, Jr., R. Schlaeger

At Mary Imogene Bassett Hospital:
Assistant Clinical Professor: O. D. Sahler

At Goldwater Memorial Hospital:
Associate: H. K. Taylor

At Hospital for Joint Diseases:
Associate: M. M. Pomeranz

At Mt. Sinai Hospital:
Associate Clinical Professors: S. Feitelberg (*Physics*), B. S. Wolf
Instructor: S. M. Silverstone

At Montefiore Hospital:
Associate Clinical Professor: S. Fineman
Associate: J. R. Freid

At Woman's Hospital:
Associate: H. C. McIntosh

Instruction required for the degree of Doctor of Medicine includes *Diagnostic radiology* in the third year and *X-ray interpretation* in the fourth year. *Radiotherapy,* also required, is offered in the third and fourth years.

Elective courses include *Radiologic physics, Radioactive isotopes in biology and medicine,* and *Radiobiology.*

For graduate courses communicate with the Dean's office, 630 West 168th Street.

SURGERY

Professors: V. K. Frantz, G. H. Humphreys II (*Executive Officer*), R. Lattes
Professors of Clinical Surgery: A. J. Kremen, F. L. Meleney, T. W. Stevenson, Jr.
Associate Professor of Anatomy: M. R. Murray
Associate Professors of Clinical Surgery: A. H. Blakemore, R. A. Deterling, C. D. Haagensen, D. V. Habif, H. D. Harvey, E. L. Howes, R. N. Schullinger, L. W. Sloan
Associate Clinical Professor: E. J. Donovan
Assistant Professor: G. C. Godman
Assistant Professor of Microbiology: J. D. MacLennan
Assistant Professors of Clinical Surgery: H. G. Barker, D. C. Bull, R. H. E. Elliott, Jr., R. S. Grinnell, F. R. McAllister, R. L. Moore, M. R. Porter, R. V. Santulli, J. Scudder, E. B. Self
Assistant Clinical Professors: H. S. F. Cooper, J. A. Tamerin
Research Associates: B. Johnson, G. Katz, I. Mandl, M. S. Parshley, E. Peterson
Research Associate in Biochemistry: L. S. Dietrich
Instructors: H. Auchincloss, Jr., G. F. Crikelair, J. M. Ferrer, C. W. Findlay,[1] E. N. Goodman, F. P. Herter, R. B. Hiatt, N. Lane, J. Prudden, P. D. Wiedel
Research Assistants: H. H. Benitez, T. J. Flint, J. Pogogeff
Assistants: J. L. Ankeney, C. A. C. Stein

At Bellevue Hospital:
Professors of Clinical Surgery: F. B. Berry,[1] R. H. Wylie
Assistant Clinical Professors: K. M. Lewis, H. C. Maier, P. C. Potter
Associates: J. F. Bagg, M. Chamberlain, E. L. Frazell, W. W. Heroy, A. Himmelstein, A. Lambert, C. Lester
Instructors: J. Ford, P. Kirschner, A. Papas, H. C. Reusch, B. Ryan, W. A. Wichern

At Mary Imogene Bassett Hospital:
Clinical Professor: M. A. McIver
Assistant Clinical Professors: J. Mithoefer, J. H. Powers

At Mt. Sinai Hospital:
Clinical Professors: R. Colp, J. H. Garlock, M. M. Ravitch, A. S. W. Touroff

[1] On leave 1954–1955.

At Montefiore Hospital:

Clinical Professor: E. S. Hurwitt

At Roosevelt Hospital:

Clinical Professor: H. A. Patterson
Associate Clinical Professors: F. H. Amendola, J. E. Thompson

At St. Luke's Hospital:

Assistant Clinical Professors: A. E. W. Ada, P. C. Morton, B. R. Shore
Instructors: R. W. Frazer, W. G. Knox

Instruction required for the degree of Doctor of Medicine includes *Introduction to surgery* and *Recitations, demonstrations, and clinic in principles of surgery* in the second year; *Surgery lectures, Clinical clerkships in surgery, including anesthesia,* and *Practical instruction in surgical pathology* in the third year; *Outpatient and hospital clinical clerkships* in the fourth year. *Clinical clerkships* are offered at Bellevue Hospital in the fourth year. Special instruction in the diagnosis of cancer is given in the fourth year.

Electives include *Research in the surgical laboratory,* offered to third- and fourth-year students during the college year and summer months; *Elective clinical clerkships,* available during the fourth year in the following hospitals: Roosevelt, St. Luke's, or Mary Imogene Bassett.

Surgery 225—Tissue culture as a research method. One hour lecture and 3 hours laboratory from January 4 to April 1. Professor Murray and assistants.

Lectures, demonstrations, and individual instruction dealing with the structure and function of normal and neoplastic cells *in vitro,* techniques of tissue culture and interpretation of results. For qualified graduate students, by arrangement.

For other graduate courses communicate with the Dean's office, 630 West 168th Street.

UROLOGY

Professor: G. F. Cahill (*Executive Officer*)
Professor of Clinical Urology: G. W. Fish
Associate Clinical Professor: J. N. Robinson
Assistant Professor: P. B. Hudson
Assistant Professor of Microbiology: H. Seneca
Assistant Professor of Clinical Urology: J. K. Lattimer
Assistant Clinical Professors: C. T. Hazzard, M. M. Melicow
Associate: R. C. Yeaw
Instructors: A. L. Finkle, R. F. Seidel, T. J. Sullivan, R. J. Veenema
Assistants: S. B. Braham, R. Kollmar, S. Pulrang, A. T. Willets

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Instruction required for the degree of Doctor of Medicine includes *Clinical clerkships in urology* in Squier Urological Clinic during the fourth year.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

SPECIAL FIELD

BIOPHYSICS

The degree of Doctor of Philosophy for work in the field of biophysics is under the administration of the Joint Committee on Graduate Instruction through its Subcommittee on Biophysics of which the members are:

Shirley L. Quimby, *Professor of Physics, Chairman*
G. Failla, *Professor of Radiology (Physics)*
Edith H. Quimby, *Professor of Radiology (Physics)*
G. E. Kimball, *Professor of Chemistry*
D. Rittenberg, *Professor of Biochemistry*
W. S. Root, *Professor of Physiology*
F. J. Ryan, *Associate Professor of Zoology*

GRADUATE COURSE

REQUIRED FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Biophysics 202—Special problems and techniques in biophysics. Four hours Spring Session. 4 pts. Lectures by several officers of instruction of the Faculty of Medicine.
M. W. 4–5, F. 4–6.

This course is designed to acquaint the student with the scope of biophysics and to give him an introduction to its special methods and techniques. The first group of topics includes basic methods such as spectroscopy, microscopy, photoelectric and diffraction phenomena, and the application of these to physiological problems of nerve and muscle activity, locomotion, heat and blood flow, and the special senses. These are followed by consideration of stable and radioactive isotopes, X rays, and the biological effects of radiation. Throughout the course, emphasis will be on applications to biological problems, not on methods or phenomena.

Prerequisite: *Physics 111–112, Mathematics 104, Chemistry 91–92,* and *Zoology 141,* or their equivalents.

ELECTIVE FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Students may choose electives from selected courses in biochemistry, neurology, otolaryngology, physiology, and radiology in the College of Physicians and Surgeons, and in chemistry, mathematics, physics, and zoology at the Morningside campus. See specific departments in this announcement and in the Announcement of the Faculty of Pure Science.

Prospective candidates for the degree of Doctor of Philosophy in the field of biophysics should consult the chairman of the subcommittee concerning required and optional courses and other specific requirements for the degree.

REFERENCE BOOKS AND TEXTBOOKS

The following list includes required and recommended books. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. *Students are advised against buying any books until specifically advised by the departments concerned.*

GROSS ANATOMY. Required: *Textbook of Anatomy,* Cunningham, $15; *An Atlas of Anatomy,* Grant, $12; Dorland's or Stedman's *Medical Dictionary,* $11.50.

MICROSCOPIC ANATOMY. Required: *Bailey's Textbook of Histology* (13th ed.), Smith and Copenhaver, $9. Recommended but not required: *Textbook of Histology* (6th ed.), Maximow and Bloom, $10.

NEUROANATOMY. Required: *Human Neuroanatomy* (3d ed.), Strong and Elwyn, $7.50; *Laboratory Manual for Neuroanatomy,* Elwyn, $.75. Recommended but not required: *Functional Neuroanatomy,* Krieg, $9; *Neuroanatomy* (2d ed.), Mettler, $10.50; *The Anatomy of the Nervous System* (9th ed.), Ranson and Clark, $8.50.

EMBRYOLOGY. Required (one of the following): *Development Anatomy* (6th ed.), Arey, $10; *Human Embryology* (2d ed.), Patten, $12.

BIOCHEMISTRY. Required: (Textbook to be announced); *Laboratory Manual* (1955), Staff, $1.25.

DERMATOLOGY. Recommended but not required: *Diseases of the Skin* (4th ed.), Andrews, $13.50; *Practical Dermatology,* Lewis, $7.50; *Modern Clinical Syphilology* (3d ed.), Stokes, $12; *Syphilis, Its Course and Management,* Thomas, $5.50.

MEDICINE. Recommended but not required: *Principles and Practice of Physical Diagnosis* (2d ed.), Martini, $2; *Clinical Hematology,* Wintrobe, Lea, and Febiger (3d ed.), $12.50; *Physiological Basis of Medical Practice* (4th ed.), Best and Taylor, $10; *Biochemistry of Disease* (2d ed.), Bodansky, Macmillan, $12; *Textbook of Medicine* (8th ed.), Cecil and Loeb, $13; *Principles of International Medicine,* Harrison, $15; *Classical Descriptions of Disease,* Major, $7. Reference textbooks: *Loose-Leaf Medicine,* Oxford, $150.

MICROBIOLOGY. Required: *Laboratory Manual in Microbiology and Immunology,* $3; *Zinsser's Textbook of Bacteriology* (10th ed.), Smith-Conant, $11. Recommended but not required: *Bacterial and Mycotic Infections of Man* (2d ed.), edited by Dubos, $7.50; *Viral and Rickettsial Infections of Man* (2d ed.), edited by Rivers, $7.50.

NEUROLOGY. Required (one of the following): *Neurology,* Grinker, $10.50; *A Textbook of Clinical Neurology,* Wechsler, $8.50; *Diseases of the Nervous System,* Brain, $10.75. Recommended but not required: *Basis of Clinical Neurology,* Brock, $5.50; *Injuries of the Skull, Brain, and Spinal Cord,* Brock, $7; *Fundamentals of Clinical Neurology,* Merritt, Mettler, and Putnam, $6; *Neuroanatomy,* Mettler, $10; *Diseases of the Nervous System in Infancy, Childhood, and Adolescence,* Ford, $12.50.

Obstetrics and Gynecology. Required for gynecology (one of the following): *Textbook of Gynecology* (6th ed.), Curtis and Huffman, $11; *Textbook of Gynecology* (4th ed.), Novak, $9. Required for obstetrics (one of the following): *Williams' Obstetrics* (10th ed.), Eastman, $12.50; *Principles and Practice of Obstetrics* (10th ed.), Greenhill-De Lee, $12.50; *Obstetrical Practice* (5th ed.), Beck, $10.

Ophthalmology. Recommended: *May's Diseases of the Eye* (21st ed. rev. by C. A. Perera), $6; *Gifford's Textbook of Ophthalmology* (5th ed.), F. H. Adler, $7.50.

Otolaryngology. Required (one of the following): *Specialties in General Practice* (chapters on ear, nose, and throat), Cecil, $15; *Diseases of the Nose, Throat and Ear,* Boise, $6.

Pathology. Required (one of the following): *Textbook of Pathology,* Moore, $12.50; *Textbook of Pathology,* Boyd, $10; *Human Pathology,* Karsner, $12; *Pathology,* Anderson, $15.

Pediatrics. Required (one of the following): *Holt Pediatrics,* Holt and McIntosh, $15; *Textbook of Pediatrics,* W. E. Nelson, $15. Recommended but not required: *Growth and Development of Children,* Watson and Lowrey, $5.75; *Pediatric X-ray Diagnosis* (2d ed.), Caffey, $22.50.

Pharmacology. Required: *The Pharmacological Basis of Therapeutics,* Goodman and Gilman, $15; *New and Nonofficial Remedies* (current edition), $3.

Physiology. Required (one of the following): *Starling's Textbook of Physiology* (11 ed.), $11; *Howell's Textbook of Physiology* (15th ed.), Fulton, $9; *Physiology in Health and Disease* (5th ed.), Wiggers, $10; *Physiological Basis of Medical Practice* (5th ed.), Best and Taylor, $11; *Physiology in Modern Medicine* (10th ed.), Bard.

Psychiatry. Required: *Fundamentals of Psychiatry,* Strecker, $4; and/or *Textbook of Psychiatry* (6th ed., 1944), Henderson and Gillespie, $9. Recommended but not required: *Textbook of Psychiatry* (4th ed.), Noyes, $7; *Psychiatry in General Practice,* Thorner, $8.

Public Health. Required: *Textbook of Clinical Parasitology* (1952), Belding, $12.50; *Preventive Medicine and Public Health* (2d ed., 1952), W. G. Smillie, $7.50; *Textbook of Preventive Medicine,* H. R. Leavell and E. G. Clark, $8; *Rosenau, Preventive Medicine and Hygiene* (7th ed.), Kenneth F. Maxcy, $14.

Radiology. Recommended but not required: *Outline of Roentgen Diagnosis,* Rigler, $6.50; *Radiology for Medical Students,* Hodges, Lampe, and Holt, $6.75.

Surgery. Required: *Introduction to Surgery,* Frantz and Harvey, $2.50; *A Manual of Fractures and Dislocations,* Stimson, $3.25. Recommended but not required: *Textbook of Surgery* (4th ed.), Christopher, $12; *General Surgery* (5th ed.), Cole and Elman, $11; *Inhalation Anesthesia,* Guedel, $4; *Surgery,* Homans, $8; *The Management of Fractures,* Key and Conwell, $15; *Practice of Surgery,* Lewis, $137; *Fractures* (2 vols.), Watson-Jones, $20.

Urology. Recommended but not required: *Clinical Urology,* McCrea (1948), $6.50; *Synopsis of Genitourinary Diseases* (4th ed., 1950), Dodson, $4.

A microscope of standard make fitted with the following attachments will fill the student's requirements:

1. Triple nosepiece
2. Abbe or variable focus condenser
3. 10x and 6x oculars
4. 16mm. and 4mm. objectives
5. Oil immersion lens

The cost of a suitable reconditioned microscope varies from $100 to $230 depending on the age, make, and model. The standard prices of new microscopes range from $351 to $582. Each student should also provide himself with a substage lamp. Microscopes may be rented at $6 to $8 a month or $52 to $70 for a school year, depending on the condition of the microscope. A limited supply of binoculars are available also for rental at from $12 to $15 a month, or $100 to $125 a school year. Students are required to secure the usual instruments needed for the various diagnostic examinations of patients.

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SILVER, GEORGE A., *Assistant Professor of Administrative Medicine;* A.B., Pennsylvania, 1934; M.D., Jefferson, 1938; M.P.H., Johns Hopkins, 1948

SILVER, SOLOMON, *Assistant Clinical Professor of Medicine;* M.D., New York University, 1927

SILVERSTEIN, WILLIAM H., *Assistant Clinical Professor of Dentistry;* D.D.S., Maryland, 1937

SIMMS, HENRY S., *Assistant Professor of B chemistry;* B.S., Massachusetts Institute of Te nology, 1920; Ph.D., Columbia, 1922

SLOAN, LAWRENCE W., *Associate Professor Clinical Surgery;* M.D., Harvard, 1925

SMELSER, GEORGE K., *Associate Professor of Ana my;* A.B., Earlham, 1929; Ph.D., Chicago, 193

SMITH, ALAN DEFOREST, *Professor of Orthope Surgery;* A.B., Columbia, 1913; M.D., 1915

SMITH, FREDERICK M., *Associate Professor of Cl cal Orthopedic Surgery;* A.B., Yale, 1922; A.I 1923; M.D., Columbia, 1927; Med.Sc.D., 1934

SMITH, GILBERT P., *Professor of Dentistry;* D.D. Minnesota, 1927

SMITH, HARRY P., *Delafield Professor of Patholo* A.B., California, 1916; M.S., 1918; M.D., 192

SNOW, WILLIAM B., *Professor of Physical Medici* M.D., Long Island College of Medicine, 1920

SOFFER, LOUIS J., *Assistant Clinical Professor Medicine;* B.S., Johns Hopkins, 1931; M.D., L Island College of Medicine, 1928

SOUTHWORTH, HAMILTON, *Associate Clinical P fessor of Medicine;* A.B., Yale, 1929; M.D., Jo Hopkins, 1933

SPAIN, DAVID M., *Assistant Professor of Patholo* B.S., Maryland, 1932; M.D., 1936

SPERRY, WARREN M., *Professor of Biochemis* B.Chem., Cornell, 1921; M.S., Illinois, 1922; Ph. Rochester, 1925

SPRINSON, DAVID, *Associate Professor of B chemistry;* B.S., College of the City of New Yo 1931; M.S., New York University, 1936; Ph. Columbia, 1946

SPROUL, EDITH E., *Associate Professor of Patholo* A.B., Barnard, 1928; M.D., Columbia, 1931

STEER, CHARLES M., *Associate Professor of Clin Obstetrics and Gynecology;* A.B., Columbia, 19 M.D., 1937; Med.Sc.D., 1942

STEINER, ALFRED, *Assistant Clinical Professor Medicine;* B.S., Richmond, 1930; M.D., Med College of Virginia, 1933; Med.Sc.D., Colum 1938

STERN, LEO, SR., *Clinical Professor of Dentis* D.D.S., New York College of Dentistry, 1912

STEVENSON, THOMAS W., JR., *Associate Profe of Clinical Surgery;* A.B., Utah, 1925; M. Harvard, 1929

STEWART, WELLINGTON B., *Associate Professo Pathology;* B.S., Notre Dame, 1942; M. Rochester, 1945

STINCHFIELD, FRANK E., *Professor of Clin Orthopedic Surgery;* B.S., North Dakota, 19 M.D., Northwestern, 1934

STOLL, FRANCES A., *Associate Professor of De Hygiene;* B.S., Columbia, 1944; A.M., 1945; Ed. 1949

STOWE, LEWIS R., *Professor of Dentistry;* D.D Minnesota, 1916

TABERSHAW, IRVING R., *Associate Professor Occupational Medicine;* B.S., Pennsylvania, 19 M.D., Long Island College of Medicine, 1933

TAGGART, JOHN V., *Associate Professor of M cine;* M.D., Southern California, 1940

TAMERIN, JOSEPH A., *Assistant Clinical Profe of Surgery;* B.S., New York University, 1928; M. Cornell, 1932

TANCHESTER, DAVID, *Clinical Professor of D tistry;* D.D.S., New York University, 1921

TAUSIG, DANIEL P., *Assistant Professor of A thesiology;* A.M., Columbia, 1933; M.D., 1937

TAVERAS, JUAN M., *Assistant Professor of R ology;* B.S., Normal School, Santiago, 1937; M. Santiago, 1943; M.D., Pennsylvania, 1949

YLOR, GURNEY, *Assistant Clinical Professor of Medicine;* A.B., Williams, 1925; M.D., Pennsylvania, 1930

YLOR, HOWARD C., *Professor of Obstetrics and Gynecology;* Ph.B., Yale, 1920; M.D., Columbia, 924

EMANN, WILLIAM A., *Assistant Clinical Professor of Dentistry;* D.D.S., Columbia, 1927

OMPSON, JAMES E., *Associate Clinical Professor f Surgery;* A.B., Texas, 1924; M.D., 1927

OMSON, K. JEFFERSON, *Associate Clinical Professor of Medicine;* M.D., Harvard, 1931

.LMAN, ALVIN J. B., *Assistant Professor of Clinical Obstetrics and Gynecology;* A.B., Columbia, 924; M.D., 1927

TTEN, ARTHUR C., *Professor of Dentistry;*).D.S., Pennsylvania, 1926

UROFF, ARTHUR S. W., *Clinical Professor of urgery;* B.S., New York University, 1921; M.D., olumbia, 1925

OTI, FERDINAND A., *Assistant Clinical Professor of Dentistry;* D.M.D., Harvard, 1928

RNER, JOSEPH C., *Associate Professor of Clinical Medicine;* A.B., Columbia, 1929; M.D., 1933; Med.Sc.D., 1940

RNER, KENNETH B., *Associate Professor of Clinical Medicine;* A.B., Hamilton, 1922; M.D., Harard, 1926

N DYKE, HARRY B., *Hosack Professor of Pharacology;* B.S., Chicago, 1918; Ph.D., 1921; M.D., ush, 1923

RLIN, WILLIAM A., *Assistant Clinical Professor of Dentistry;* A.B., Columbia, 1929; D.D.S., 1931

CALE, CARMINE T., *Associate Professor of Clinical Neurology;* B.A., New York University, 1929; M.D., 1933

N LACKUM, WILLIAM H., *Assistant Clinical Professor of Orthopedic Surgery;* B.S., Iowa, 1916; M.D., 1918; Med.Sc.D., Columbia, 1935

N SALLMAN, LUDWIG, *Associate Professor of Ophthalmology;* M.D., Vienna, 1919

N STORCH, THEODORE J. C., *Professor of Clinical Neurology;* B.S., Princeton, 1927; M.D., Johns Hopkins, 1931

UGHT, ROBERT L., *Associate Professor of Epidemiology;* M.D., Syracuse, 1932; M.P.H., Johns Hopkins, 1937

ELSCH, HEINRICH B., *Professor of Biochemistry;* M.D., Prague, 1929; Ph.D., 1930

LCOTT, WILLIAM W., *Associate Professor of Physiology;* A.B., Yale, 1933; Ph.D., Columbia, 944

LTNER, JULES, *Assistant Clinical Professor of Otolaryngology;* M.D., University of Debrecen Hungary), 1933

NG, SHIH-CHUN, *Professor of Physiology;* B.S., enching, 1931; M.D., Peiping Union Medical College, 1935; Ph.D., Northwestern, 1940

SSERMAN, LOUIS R., *Assistant Clinical Professor f Medicine;* A.B., Harvard, 1931; M.D., Rush, 935

TERS, EDWARD G., *Assistant Clinical Professor f Obstetrics and Gynecology;* Ph.B., Yale, 1919; M.D., Harvard, 1922

TKINS, MELVIN B., *Assistant Professor of Clinical Orthopedic Surgery;* A.B., Utah, 1930; M.B., Northwestern, 1935; M.D., 1936

GRIA, RENÉ, *Assistant Professor of Medicine;* M.D., Liège, 1936; Med.Sc.D., Columbia, 1945

INGARTEN, BERTHOLD, *Assistant Clinical Professor of Medicine;* M.D., Frankfort, 1922

WEITZEN, HYMAN G., *Assistant Clinical Professor of Neurology;* A.B., New York University, 1934; M.D., 1938

WELLS, JOSEPHINE S., *Assistant Professor of Radiology;* A.B., Barnard, 1932; M.D., Columbia, 1938

WERNER, SIDNEY C., *Associate Professor of Clinical Medicine;* A.B., Columbia, 1929; M.D., 1932; Med.Sc.D., 1937

WERTHEIM, ARTHUR R., *Assistant Professor of Medicine;* A.B., Dartmouth, 1935; M.D., Jefferson, 1939

WHEELER, MAYNARD C., *Clinical Professor of Ophthalmology;* A.B., Stanford, 1926; M.D., Columbia, 1929; Med.Sc.D., 1938

WHITMAN, CLIFFORD L., *Assistant Clinical Professor of Dentistry;* D.D.S., University of Maryland, 1927

WHITTIER, JOHN R., *Assistant Clinical Professor of Neurology;* A.B., Harvard, 1939; M.D., Columbia, 1943

WIGH, RUSSELL, *Assistant Professor of Radiology;* B.S., Rutgers, 1935; M.D., Harvard, 1939

WILCOX, HERBERT B., Jr., *Assistant Clinical Professor of Medicine;* A.B., Yale, 1930; M.D., Columbia, 1934

WILDE, DELPHINE, *Assistant Professor of Nursing;* B.S., Columbia, 1926

WILLIAMS, ROGER W., *Associate Professor of Medical Entomology;* B.S., Illinois, 1939; M.S., 1941; Ph.D., Columbia, 1947

WILSON, IRWIN B., *Assistant Professor of Biochemistry;* B.S., College of the City of New York, 1941; A.M., Columbia, 1947; Ph.D., 1948

WINKELSTEIN, ASHER, *Assistant Clinical Professor of Medicine;* B.S., Syracuse, 1915; M.D., 1917

WITOL, EVELYN, *Assistant Clinical Professor of Dentistry;* D.M.D., Tufts, 1945

WOLF, ABNER, *Professor of Neuropathology;* A.B., Columbia, 1923; M.D., 1926

WOLF, BERNARD S., *Associate Clinical Professor of Radiology;* B.S., New York University, 1932; M.D., 1936

WOOD, CHARLES L., *Assistant Clinical Professor of Pediatrics;* B.S., New York University, 1926; M.D., Yale, 1930

WOODMAN, De GRAAF, *Clinical Professor of Otolaryngology;* B.S., Cornell, 1917; M.D., 1926

WYLIE, ROBERT H., *Professor of Clinical Surgery;* Ph.B., Yale, 1927; M.D., Columbia, 1931

YAHR, MELVIN D., *Assistant Professor of Clinical Neurology;* A.B., New York University, 1939; M.D., 1943

ZAMENHOF, STEPHEN, *Assistant Professor of Biochemistry;* M.E., Warsaw Polytechnic, 1933; D.Tech.Sc., 1936; Ph.D., Columbia, 1949

ZEGARELLI, EDWARD V., *Associate Professor of Dentistry;* A.B., Columbia, 1934; D.D.S., 1937; M.S., Chicago, 1942

ZIMMERMAN, HARRY M., *Professor of Pathology;* B.S., Yale, 1924; M.D., 1927

ZUCKER, THEODORE F., *Assistant Professor of Pathology;* A.B., Concordia, 1907; M.S., Illinois, 1912

SLANETZ, CHARLES A., *Curator of Animal Husbandry;* B.S., Connecticut, 1922; M.S., 1923; Ph.D., Yale, 1926

For names of associates, lecturers, instructors, and assistants, see departmental rosters (page 26 and following).

HOSPITAL APPOINTMENTS

CLASS OF 1954

Adams, Martha—Montefiore Hospital, Bronx, N. Y.
Altman, Kenneth A.—Lenox Hill Hospital, New York City
Angell, Edward D.—Grace-New Haven Hospital, New Haven, Conn.
Azzoni, Alfred A.—Bellevue Hospital, New York City
Barnhouse, David H.—Strong Memorial Hospital, Rochester, N. Y.
Bass, Berl G.—Bellevue Hospital, New York City
Bass, Milena Lewis—Bellevue Hospital, New York City
Bernart, William F.—Peter Bent Brigham Hospital, Boston, Mass.
Bonney, Walter A., Jr.—University Hospitals of Cleveland, Cleveland, Ohio
Bradley, Thomas B., Jr.—Presbyterian Hospital, New York City
Brickner, Philip W.—Bellevue Hospital, New York City
Browning, Samuel, III—Roosevelt Hospital, New York City
Bugbee, Lawrence M.—Strong Memorial Hospital, Rochester, N. Y.
Butler, Vincent P., Jr.—Presbyterian Hospital, New York City
Caldwell, William T.—Jackson Memorial Hospital, Miami, Fla.
Cannon, Alfred J.—Los Angeles County Hospital, Los Angeles, Calif.
Carter, Rodman D.—Mary Imogene Bassett Hospital, Cooperstown, N. Y.
Chidsey, Charles A., III—Bellevue Hospital, New York City
Cohen, Burton D.—Bellevue Hospital, New York City
Coles, Martin R.—University of Chicago Clinics, Chicago, Ill.
Conklin, Edward F.—Presbyterian Hospital, New York City
Craig, Hope—Cincinnati General Hospital, Cincinnati, Ohio
Cucchiarella, Armando—St. Vincent's Hospital, New York City
Dallas, Donald P.—St. Luke's Hospital, New York City
Davidson, Paul L.—Boston City Hospital, Boston, Mass.
Des Prez, Patience D.—White Plains Hospital, White Plains, N. Y.
Des Prez, Roger M.—New York Hospital, New York City
Durfey, John Q.—Cincinnati General Hospital, Cincinnati, Ohio
Ellison, John B.—St. Luke's Hospital, New York City
Engler, Robert S.—Bellevue Hospital, New York City
Faris, David G.—Lenox Hill Hospital, New York City
Feeley, Eugene J.—University of Pennsylvania Hospital, Philadelphia, Pa.
Foster, James H.—Barnes Hospital, St. Louis, Mo.
Garvey, James M., Jr.—Cincinnati General Hospital, Cincinnati, Ohio
Gates, Marguerite J.—Cincinnati General Hospital, Cincinnati, Ohio
Glover, Ronald W.—United States Navy
Goldberg, Eugene L.—Mt. Sinai Hospital, New York City
Gordis, Enoch—Mt. Sinai Hospital, New York City
Gottfried, Eugene L.—Presbyterian Hospital, New York City
Gould, Herbert L.—Bellevue Hospital, New York City
Goulian, Mehran—Barnes Hospital, St. Louis, Mo.
Grant, Neville—Barnes Hospital, St. Louis, Mo.
Gulyassy, Paul F.—University of California, San Francisco, Calif.
Hanway, James W.—St. Luke's Hospital, New York City
Hastings, James B.—Mary Imogene Bassett Hospital, Cooperstown, N. Y.
Haynes, William F., Jr.—St. Luke's Hospital, New York City
Hays, Richard M.—Beth Israel Hospital, New York City
Healey, Louis A., Jr.—King County Hospital, Seattle, Wash.
Herrmann, Ronee—Mt. Sinai Hospital, New York City
Hill, Kevin—Massachusetts Memorial Hospital, Boston, Mass.
Hobart, John H.—University of Chicago Clinics, Chicago, Ill.
Hogle, George H.—Presbyterian Hospital, New York City
Holland, Thomas R.—Albany Hospital, Albany, N. Y.
Holle, Henry B.—Roosevelt Hospital, New York City
Hollister, Robert M.—Strong Memorial Hospital, Rochester, N. Y.
Hoops, Harold J., Jr.—United States Navy
Jackson, John L.—Barnes Hospital, St. Louis, Mo.
Jelliffe, Roger W.—University Hospitals of Cleveland, Cleveland, Ohio
Keating, Paul—St. Luke's Hospital, New York City
Kevy, Sherwin V.—Childrens Hospital, Boston, Mass.
King, Hueston C.—Jackson Memorial Hospital, Miami, Fla.
Kleinfeld, George—Presbyterian Hospital, New York City
Klipstein, Frederick—Presbyterian Hospital, New York City
Korman, Samuel—Beth Israel Hospital, New York City
Langer, Glenn A.—Massachusetts General Hospital, Boston, Mass.
Lindsay, Elmer R.—University Hospitals of Cleveland, Cleveland, Ohio
Lipman, Marvin—Presbyterian Hospital, New York City
Loughridge, Chalmers—Philadelphia General Hospital, Philadelphia, Pa.
Lunt, John—Roosevelt Hospital, New York City
MacDonald, Lonnie—Bellevue Hospital, New York City
Mackie, Joseph E.—Bellevue Hospital, New York City

Malcolm, Daniel—Kings County Hospital, Brooklyn, N. Y.
Mayer, Paul W.—Mary Imogene Bassett Hospital, Cooperstown, N. Y.
McDaniel, Joseph L.—University Hospitals of Cleveland, Cleveland, Ohio
Mead, Peyton H.—Hartford Hospital, Hartford, Conn.
Mittelman, Arnold—Johns Hopkins Hospital, Baltimore, Md.
Muir, William R.—University of Pennsylvania Hospital, Philadelphia, Pa.
Munsick, Robert A.—Roosevelt Hospital, New York City
O'Connor, George R.—Peter Bent Brigham Hospital, Boston, Mass.
O'Neill, Edgar B.—Albany Hospital, Albany, N. Y.
Oken, Donald E.—Edward J. Meyer Hospital, Buffalo, N. Y.
Palmer, David B.—St. Luke's Hospital, New York City
Pennoyer, Doris S.—Roosevelt Hospital, New York City
Pennoyer, Douglass C.—Roosevelt Hospital, New York City
Peterson, Bonita J.—University of Kansas Medical Center, Kansas City, Kan.
Phillips, John H.—King County Hospital, Seattle, Wash.
Pottenger, Robert T.—San Francisco Hospital, San Francisco, Calif.
Prickett, Richard M.—St. Luke's Hospital, New York City
Ramsdell, John A.—Bellevue Hospital, New York City
Rathe, James W.—Roosevelt Hospital, New York City
Read, David T.—Jackson Memorial Hospital, Miami, Fla.
Reisfield, Donald R.—Grace-New Haven Hospital, New Haven, Conn.
Salerno, Robert A.—Presbyterian Hospital, New York City
Schmitt, Daniel—St. Luke's Hospital, New York City
Schocket, Charles L.—Mt. Sinai Hospital, New York City
Schoenberg, Bernard—Boston City Hospital, Boston, Mass.
Silipo, Samuel C.—Hartford Hospital, Hartford, Conn.
Sitarz, Anneliese L.—Childrens Hospital, Boston, Mass.
Stocker, Harold H.—Cincinnati General Hospital, Cincinnati, Ohio
Swartz, Herbert M.—Brooklyn Hospital, Brooklyn, N. Y.
Taylor, James C.—Bellevue Hospital, New York City
Theurkauf, Edward A.—Pennsylvania Hospital, Philadelphia, Pa.
Tuchman, Walter—Bellevue Hospital, New York City
Vagelos, Pindaros R.—Massachusetts General Hospital, Boston, Mass.
Vecchiolla, John A.—Boston City Hospital, Boston, Mass.
Vessie, William A.—Roosevelt Hospital, New York City
Weiss, Joan M.—Mary Imogene Bassett Hospital, Cooperstown, N. Y.
Wheaton, Earl A., Jr.—Presbyterian Hospital, New York City
Wohl, Herbert—Presbyterian Hospital, New York City
Wood, Kathleen M.—Strong Memorial Hospital, Rochester, N. Y.

REGISTER OF STUDENTS

THIRD-YEAR CLASS—CLASS OF JUNE, 1955

Adams, Paul Lieber — Danville, Ky.
A.B., Centre, 1943
Battat, Felix A. — Lynbrook, N.Y.
A.B., Columbia, 1951
Baumgartner, Philip O. — Gardner, Mass.
A.B., Princeton, 1950
Bergen, Stanley S., Jr. — New York City
A.B., Princeton, 1951
Berman, David — Brooklyn, N.Y.
A.B., Columbia, 1951
Best, Lincoln Robert — Wake Forest, N.C.
A.B., Columbia, 1951
Bilbao, Joseph — Tarrytown, N.Y.
A.B., Columbia, 1950
Bingham, Anne — Berkeley, Calif.
A.B., Vassar, 1951
Bishop, Robert TenEyck — New Britain, Conn.
B.S., Trinity, 1951
Blum, Jerome Victor — Jersey City, N.J.
A.B., Columbia, 1949
Brown, Donald LeRoy — Westfield, N.J.
A.B., Lehigh, 1951
Brunstetter, Richard W. — New York City
A.B., Columbia, 1950
Carpe, Lestra MacBain — Putnam Valley, N.Y.
A.B., Sarah Lawrence, 1951
Ciaravino, William Ignatius — Freeport, N.Y.
A.B., Lehigh, 1951
Clarke, William W. — Tenafly, N.J.
A.B., Princeton, 1950
Cobert, Norman — Brooklyn, N.Y.
A.B., Columbia, 1951
Cosman, Bard — Brooklyn, N.Y.
A.B., Columbia, 1952
Cruess, Richard L. — Short Hills, N.J.
A.B., Princeton, 1951
Cruess, Sylvia Robinson — Cleveland, Ohio
A.B., Vassar, 1951
Cushman, Paul, Jr. — New York City
A.B., Yale, 1951
DeHaan, Quentin Conrad — Orlando, Fla.
B.S., Florida, 1950
DeVault, Walter David, Jr. — Knoxville, Tenn.
A.B., Tennessee, 1951
Eberly, Richard J. — Riverton, N.J.
A.B., Haverford, 1951
Eisinger, Robert P. — New York City
A.B., Swarthmore, 1951
Elias, Richard Abraham — Charlestown, W. Va.
A.B., West Virginia, 1951
Everett, William Henry — Larchmont, N.Y.
A.B., Williams, 1951
Fanoni, Roy Henry — Akron, Ohio
A.B., Wheaton, 1945
Feld, Alan W. — Clifton, N.J.
A.B., Princeton, 1951
Fields, Dozier Nelson, Jr. — New York City
A.B., Yale, 1951
Fisher, Lloyd C. — New York City
A.B., Dartmouth, 1952
Fleming, Peter — Elkhart, Ind.
A.B., Dartmouth, 1951
Frantz, Andrew Gibson — New York City
A.B., Harvard, 1951
Goldin, Gurston D. — Bronx, N.Y.
A.B., Columbia, 1951
Gordon, Allan David — New Haven, Conn.
A.B., Yale, 1951
Gordon, Arthur — Brooklyn, N.Y.
A.B., New York University, 1950
Griege, Charles William — Troy, N.Y.
B.S., Fordham, 1951
Griswold, John D. — Montclair, N.J.
A.B., Princeton, 1951
Halpern, Harriet Smith — Forest Hills, N. Y.
A.B., Bryn Mawr, 1951
Halstead, Scott Barker — White Plains, N.Y.
A.B., Yale, 1951
Heggie, John Francis — Glen Head, N.Y.
A.B., Columbia, 1951
Heins, Marilyn J. — Dorchester, Mass.
A.B., Radcliffe, 1951
Heitmann, Jane Ann — Iowa City, Iowa
A.B., Smith, 1951
Herrmann, Richard Alan — Montclair, N.J.
A.B., Columbia, 1951
Kaimakliotis, Elias M. — Kato Polemidia, Cyprus
B.S., Columbia, 1951
Kaplan, Alan Leslie — Miami Beach, Fla.
A.B., Washington and Lee, 1951
Kelly, Thorpe Maurice — Bronxville, N.Y.
A.B., Harvard, 1951
Kessler, Alexander — New York City
A.B., New York University, 1951
King, E. Henry — Orangeburg, N.Y.
B.S., Columbia, 1952
King, Memee Hien-Kouen — Hyattsville, Md.
A.B., Bryn Mawr, 1951
Kolomeyer, Norton — Newark, N.J.
A.B., Columbia, 1951
Kosovsky, Nathan G. — Brooklyn, N.Y.
A.B., Columbia, 1951
Krotzer, Lawrence S. — Chappaqua, N.Y.
A.B., Yale, 1950
Lai, Maxwell Daniel — Cascade, Md.
A.B., Yale, 1950
Langmann, Robert Drewes — New York City
A.B., Harvard, 1950
Leary, Daniel Francis — Dorchester, Mass.
A.B., Boston, 1949
Leeds, Warren W. — Bayonne, N.J.
B.S., Columbia, 1951
Lovekin, William Stevens — Tucson, Ariz.
B.S., Arizona, 1951
Lum, Kwong Yen — Honolulu, Hawaii
A.B., Colgate, 1951
McCartney, James Robert — Garden City, N.Y.
A.B., Ohio Wesleyan, 1952
Mahin, Dorsey Taylor — New York City
B.S., United States Military Academy, 1945
Marcus, Donald Martin — New York City
A.B., Princeton, 1951
Marshall, David — Willmantic, Conn.
A.B., Yale, 1951
Masi, Alfonse Thomas — New York City
B.S., College of the City of New York, 1951
Merriam, Thornton Ward, Jr. — Springfield, Mass.
A.B., Colby, 1951
[1]Miller, Barnett Myron — Jersey City, N.J.
A.B., Columbia, 1951
Milyko, Alexander Busch — Bayville, N.Y.
A.B., Haverford, 1951
Naeye, Richard L. — Marion, N.Y.
A.B., Colgate, 1951

[1] Withdrew

Jam, Herbert Mu Hak — Honolulu, Hawaii
A.B., New York University, 1951
Jesbitt, George Davis — Larchmont, N.Y.
A.B., Princeton, 1951
Jewman, Ellen — Hamden, Conn.
A.B., Radcliffe, 1951
)choa, Manuel, Jr. — New York City
A.B., Columbia, 1951
)hanessian, Simon — Kirkuk, Iraq
A.B., Hamilton, 1951
'ettee, Daniel Starr — Summit, N.J.
A.B., Yale, 1951
'ew, Darlyne A. — Hempstead, N.Y.
B.S., Columbia, 1951
ierson, Richard Norris, Jr. — New York City
A.B., Yale, 1951
'olansky, Burton Jay — Salem, Mass.
A.B., Hobart, 1951
ollak, Emil Martin — Perth Amboy, N.J.
A.B., Columbia, 1951
.anck, James Byrne, Jr. — Frederick, Md.
A.B., Haverford, 1952
.awcliffe, Robert Arthur, Jr. — Newport, Vt.
B.S., Tufts, 1951
.edleaf, Paul David — Great Neck, N.Y.
A.B., Cornell, 1951
.enthal, Alvin G. — Woodmere, N.Y.
A.B., Yale, 1951
.esnik, Harvey L. P. — Buffalo, N.Y.
A.B., Buffalo, 1951
ifkind, Richard Allen — New York City
B.S., Yale, 1952
ochester, Dudley F. — Fort Lee, N.J.
A.B., Columbia, 1950
ogers, Henry Crampton — New York City
A.B., Williams, 1951
osett, Henry Lewis — New York City
A.B., Columbia, 1951
oth, Robert Frank — Wurtsboro, N.Y.
A.B., Oberlin, 1951
owley, Peter Templeton — Greenville, Pa.
A.B., Harvard, 1951
udinger, Edwin Anton — Richmond Hill, N.Y.
B.S., Wagner, 1951
ampson, David Moody — Moscow, Idaho
B.S., Idaho, 1953
:hullinger, John Nicholas — New York City
A.B., Princeton, 1951
:udder, Walter Tracy — Gambier, Ohio
A.B., Princeton, 1951
:lly, George William — New York City
A.B., Williams, 1951
ıeridan, Sylvester Robert — Brooklyn, N.Y.
A.B., Fordham, 1951
egel, Robert Richard — Brooklyn, N.Y.
A.B., Brooklyn, 1951
lbersweig, Robert — Richmond Hill, N.Y.
A.B., Columbia, 1952
lverman, Leon — Brooklyn, N.Y.
B.S., Columbia, 1950
nith, Julian P. — Portsmouth, Ohio
A.B., Ohio Wesleyan, 1951
ıalter, Harold Franklin — New York City
A.B., Brown, 1951
:ocks, Joseph Frederick — Manchester, N.H.
B.S., Tufts, 1951
ıuckey, Robert Frederic — Tarrant, Ala.
B.S., Alabama Polytechnic Institute, 1951
aylor, Howard Canning, III — New York City
A.B., Yale, 1951
ramontozzi, Anthony Daniel — Norwich, Conn.
A.B., Harvard, 1951
Van Besien, Maurice Jean, Jr. — New York City
A.B., Columbia, 1952
Vang, Rolf Roald — Brooklyn, N.Y.
A.B., Harvard, 1951
Verdesca, Arthur Salvatore — Fairview, N.J.
A.B., Columbia, 1951
Westerhoff, Peter Detilius, Jr. — Midland Park, N.J.
A.B., Hope, 1949
Wheelock, Earle Frederick — Mt. Kisco, N.Y.
B.S., Massachusetts Institute of Technology, 1950
Wilson, John Stewart — West Hartford, Conn.
B.S., Trinity, 1951
Winfield, Mark Edwin — New York City
A.B., Columbia, 1951
Worcester, James N., Jr. — Bronxville, N.Y.
A.B., Yale, 1947
Wunderlich, Ray Charles — St. Petersburg, Fla.
B.S., Florida, 1951
Young, James Kent — Rumson, N.J.
A.B., Princeton, 1950
Zabriskie, John B. — New York City
A.B., Princeton, 1951
Zawadsky, Joseph Peter — South River, N.J.
A.B., Princeton, 1951

Third Year: Class of June, 1955 113

SECOND-YEAR CLASS—CLASS OF JUNE, 1956

Andrews, David — Shaker Heights, Ohio
A.B., Williams, 1952
Barry, Peter Ernest — Manhasset, N.Y.
A.B., Columbia, 1952
Bartlett, Raymond Clark — New York City
A.B., Columbia, 1952
Baruch, Hans H. — Brooklyn, N.Y.
A.B., Brooklyn College, 1952
Beatrice, Marianna Angela — Bristol, Conn.
A.B., Vassar, 1952
Black, Paul Henry — Newton, Mass.
A.B., Dartmouth, 1952
Bramwell, Edith Moffat — New York City
A.B., Smith, 1952
Brodsky, J. Putnam — Summit, N.J.
A.B., Princeton, 1952
Brown, Edward Osgood — Santa Fe, N.M.
A.B., Harvard, 1952
Brown, Roy Edward — White Plains, N.Y.
A.B., Columbia, 1952
Buker, Robert Hutchinson — Thailand
A.B., Boston, 1949; M.S., Maine, 1952
Burka, Edward R. — Washington, D.C.
A.B., Princeton, 1952
Burland, John Alexis — New York City
A.B., Colgate, 1952
Carver, Susan Townsend — Rockville Centre, N.Y.
A.B., Swarthmore, 1952
Casey, James Francis — Forest Hills, N.Y.
A.B., Holy Cross, 1952
Chastain, Charles William — Cookeville, Tenn.
A.B., Harvard, 1952
Clark, Lealand L. — Pleasant Grove, Utah
A.B., Columbia, 1952
Clements, Neil Carlton — Dayton, Ohio
A.B., Princeton, 1952
Cobb, Oliver Ellsworth — New York City
A.B., Williams, 1952
Copenhaver, Richard Marker — New York City
A.B., Columbia, 1952
Council, Francis Elbert, Jr. — Windom, Texas
A.B., Texas Christian, 1952
Crosby, Anne — Baltimore, Md.
A.B., Mount Holyoke, 1952

Curtis, Frederick Kingsbury New Canaan, Conn.
A.B., Yale, 1952
Davidson, Jere Frank Brooklyn, N.Y.
A.B., Yale, 1952
Dawson, Keith Granger New York City
A.B., Princeton, 1952
Dearmin, Nancy S. Indianapolis, Ind.
A.B., Indiana, 1951
Donaldson, Charles Louis New York City
B.S., College of the City of New York, 1952
Dubin, Donald Theodore Brooklyn, N.Y.
A.B., Harvard, 1952
Dunn, Leo James Kings Park, L.I., N.Y.
A.B., Hofstra, 1952
Edelstein, Bernard New York City
B.S., College of the City of New York, 1952
Elderkin, Janet Sage Princeton, N.J.
A.B., Vassar, 1951
Farrer, Sanford Miller Brooklyn, N.Y.
A.B., Princeton, 1952
Federowicz, Thomas Eugent Plymouth, Pa.
A.B., Columbia, 1952
Feldman, Ronald Flushing, L.I., N.Y.
B.S., Iowa, 1952
Franklin, David Noel New York City
A.B., Yale, 1952
Futterman, Edward Hugh New York City
A.B., Dartmouth, 1952
Gammella, Peter Brooklyn, N.Y.
A.B., New York University, 1952
Ganem, Kenneth Joseph Lowell, Mass.
A.B., Harvard, 1952
Gentile, Ralph Louis Brooklyn, N.Y.
B.S., St. Francis, 1952
Gilbert, Robert Alfred Trotwood, Ohio
A.B., Chicago, 1950
Gleason, Donald Mark Brooklyn, N.Y.
A.B., Harvard, 1952
Goodale, Robert Lincoln, Jr. Cambridge, Mass.
A.B., Princeton, 1952
Green, Arthur Brooklyn, N.Y.
B.S., Columbia, 1952
Haber, Edgar Yonkers, N.Y.
A.B., Columbia, 1952
Hardin, Byron New York City
Hatfield, Wendell B. Denver, Colo.
A.B., Columbia, 1953
Heady, William Chauncey Orangeburg, N.Y.
A.B., Columbia, 1952
Healey, William Vincent New York City
A.B., Princeton, 1952
Heckman, Margaret Gray New York City
B.S., Ursinus, 1947; M.S., Columbia, 1950
Herrick, Robert Henry Berkeley, Calif.
A.B., California, 1952
Hirsch, Robert Stephen Cedarhurst, N.Y.
A.B., Harvard, 1952
Hodgman, Christopher Newton Centre, Mass.
A.B., Harvard, 1952
Hogan, Vincent Michael, Jr. West Orange, N.J.
A.B., Princeton, 1952
Hovsepian, Jeanette Anahid New York City
A.B., Barnard, 1952
Hulka, Jaroslav Fabian Flushing, L.I., N.Y.
A.B., Harvard, 1952
Jacobs, Jerry C. New York City
A.B., Columbia, 1952
Jassie, Marvin Paul Brooklyn, N.Y.
A.B., Columbia, 1952
Jonas, Saran New York City
B.S., Yale, 1952

[1] Withdrew

Kaderabek, Donal Joseph West Orange, N.J.
A.B., Harvard, 1952
Katz, Fred H. New York City
A.B., Columbia, 1952
Kaufman, Richard Samuel Shaker Heights, Ohio
A.B., Yale, 1952
Kohn, Kurt William New York City
A.B., Harvard, 1952
Kuehner, Janet Lou Pittsburgh, Pa.
A.B., Sarah Lawrence, 1945
Kurke, Nancy Booth Brooklyn, N.Y.
A.B., Barnard, 1952
Lagomarsino, Fred John Newark, N.J.
A.B., Columbia, 1952
Lawrence, Mary Christine Landenburg, Pa.
B.S., Michigan, 1952
Leddy, John Plunkett Brooklyn, N.Y.
A.B., Fordham, 1952
Lee, Burton James, III Cold Springs Harbor, N.Y.
A.B., Yale, 1952
Lewis, F. Bruce Cranford, N.J.
A.B., Harvard, 1952
Liachowitz, Claire H. Mahanoy City, Pa.
A.B., Bryn Mawr, 1952
Liptzin, Yelva Long Beach, N.Y.
A.B., Cornell, 1952
Litsky, Gerald M. Plattsburg, N.Y.
B.S., McGill, 1952
Lobell, Stephen Miles Jackson Heights, N.Y.
A.B., Columbia, 1952
McLoughlin, Patrick Thomas New York City
A.B., Cornell, 1952
Mahew, Shirley Randall Rochester, N.Y.
B.S., Illinois, 1945
Mahoi, Moses Musa
Moyamba, Sierre Leone, B.W.A.
A.B., Indiana Central College, 1950
Maslansky, Robert Abraham Rego Park, N.Y.
A.B., Washington and Lee, 1952
Meier, Carl Frank Flushing, L.I., N.Y.
A.B., Columbia, 1952
[1]Miller, Philip Harry Portland, Ore.
A.B., Princeton, 1952
Montana, Jerome Allan Oyster Bay, L.I., N.Y.
A.B., Harvard, 1952
Montroy, Robert Edgar Short Hills, N.J.
B.S., Upsala College, 1952
Moore, John Leslie Paramus, N.J.
B.S., Bates, 1952
Moore, Thomas Jenner Princeton, N.J.
A.B., Princeton, 1952
Mullaney, John New York City
A.B., Columbia, 1952
Myers, Wayne Alan Flushing, L.I., N.Y.
B.S., Arkansas, 1952
Nay, Howard Riley Wheeling, W. Va.
A.B., Virginia Military Institute, 1952
Osnos, Robert John New York City
A.B., Columbia, 1951; A.M., Columbia, 1952
Pasternack, Frederick Oliver Mineola, L.I., N.Y.
B.S., Rutgers, 1950
Pratt, Hugh Spencer, Jr. Glendale, Calif.
A.B., Hobart, 1952
Pritchard, Hubert New York City
A.B., Queens College, 1948
Putnam, Louis Reppert Ashland, Ky.
B.S., Washington and Lee, 1952
Radwin, Howard Martin Brooklyn, N.Y.
A.B., Princeton, 1952
Richter, Ralph Walter Linden, N.J.
A.B., Columbia, 1952

tobinson, Theodore New York City
A.B., Columbia, 1952
tothbaum, Jerome C. Elmont, N.Y.
A.B., Hofsta, 1952
cian, Louis Francis Trenton, N.J.
A.B., Princeton, 1952
ickles, Charles Garret
Smithtown Br., L.I., N.Y.
A.B., Fordham, 1952
ilverman, Joseph Alexander Clifton, N.J.
A.B., Princeton, 1952
kilbred, Lars Arne Brooklyn, N.Y.
A.B., Amherst, 1952
peir, Robert Wade New York City
A.B., Princeton, 1950
pina, Christopher Brooklyn, N.Y.
B.S., Columbia, 1951
weeting, Joseph George Flushing, L.I., N.Y.
B.S., Holy Cross, 1952
arnay, Thomas Joseph
Hastings on Hudson, N.Y.
A.B., Cornell, 1952
aylor, Nathan Siegfried New York City
A.B., Columbia, 1952
rayner, Edwin Michael Jersey City, N.J.
A.B., Columbia, 1951
riedman, Martin Howard Pawtucket, R.I.
A.B., Brown, 1952
ruong, Xuan Thoai
Saigon, Vietnam, Indochina
B.S., West Liberty State, 1952
ulevech, Charles B., Jr. Great Neck, N.Y.
A.B., Columbia, 1949
yson, Robert Leonard Merion, Pa.
B.E., Yale, 1952
Vandersluis, Alfred Bernard Cleveland, Ohio
B.S., Baldwin-Wallace, 1952
Valzer, Richard Arnold Scarsdale, N.Y.
A.B., Harvard, 1952
Vatt, Donald James New York City
A.B., Wesleyan, 1952
Veiss, William Pollitzer New York City
A.B., Harvard, 1952
Vendt, Vernon Earl Cleveland, Ohio
B.S., Baldwin-Wallace, 1952
Vestover, Wynn E. Lincoln, Nebraska
A.B., Wesleyan, 1950
Villiams, Barbara East Orange, N.J.
A.B., Cornell, 1949
Villiams, Frank Scott Brooklyn, N.Y.
A.B., Columbia, 1953
Vinner, William Kew Gardens Hills, L.I., N.Y.
A.B., Columbia, 1952
Vosnitzer, Morey Newark, N.J.
B.S., Rutgers, 1951; M.S., 1952
Vu, Clyde Ying-Chau Stockton, Calif.
A.B., Johns Hopkins, 1952
ankopoulos, Nicholas Alexander
Fall River, Mass.
A.B., Harvard, 1952
ardley, Jack Milam Worthington, Ind.
B.S., Purdue, 1949

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FIRST-YEAR CLASS—CLASS OF JUNE, 1957

dler, Gerald New York City
A.B., Columbia, 1951
ltman, Ronald Brooklyn, N.Y.
A.B., Swarthmore, 1953
mbrose, Robert B. Short Hills, N.J.
A.B., Princeton, 1953

Andersen, Leon O. Brooklyn, N.Y.
A.B., Harvard, 1951
Armstrong, Donald Trenton, N.J.
A.B., Lehigh, 1953
Arnow, Lewis New Rochelle, N.Y.
A.B., Harvard, 1953
Barrett, Stephen J. New York City
A.B., Columbia, 1954
Bauman, Gene Coytesville, N.J.
A.B., Columbia, 1953
[1]Belskie, Albert A. Closter, N.J.
A.B., Columbia, 1953
Beltrani, Vincent S. Brooklyn, N.Y.
A.B., Brooklyn, 1953
Bercovici, George New York City
B.A., Arago (France), 1949; B.S., Columbia, 1953
Bertsch, Robert G. Glasgow, Montana
A.B., Carleton, 1953
Bettigole, Richard E. New York City
A.B., Yale, 1953
Bockol, Joel M. Philadelphia, Pa.
B.S., Haverford, 1953
Boname, John R. Rye, N.Y.
A.B., Yale, 1953
Bono, Vincent H., Jr. Brooklyn, N.Y.
A.B., Columbia, 1953
Boulay, Roger J. Fall River, Mass.
B.S., Tufts, 1950
Breen, Francis J. Woodhaven, N.Y.
A.B., Columbia, 1953
Brown, Gordon E. East Grand Rapids, Michigan
A.B., Kenyon, 1953
Bryson, Michael F. Tenafly, N.J.
A.B., Cornell, 1953
Buchwald, Henry New York City
A.B., Columbia, 1954
Bucknam, Charles A. Waterville, Maine
B.S., Bates, 1953
Burkhart, Charles B. Woodsfield, Ohio
A.B., Yale, 1953
Chandler, Stephen V. Hackensack, N.J.
A.B., Harvard, 1953
Danielski, Edward F., Jr. Greenfield, Mass.
A.B., Harvard, 1953
Davis, John S., Jr. Haddonfield, N.J.
A.B., Princeton, 1953
Deaton, Hugo L. Baltimore, Maryland
B.S., Haverford, 1953
Dede, Anthony Brooklyn, N.Y.
A.B., New York University, 1953
Dodd, John W. Freeport, N.Y.
A.B., Colgate, 1953
Drake, George H., Jr. Maplewood, N.J.
A.B., Lafayette, 1953
Ertel, Norman H. Brooklyn, N.Y.
A.B., Harvard, 1953
Faverio, Charles D., Jr. Jackson Heights, N.Y.
B.S., Manhattan, 1953
Finke, Stanley R. New York City
Freeman, Richard G. White Plains, N.Y.
A.B., Yale, 1953
Gerber, Donald A. Brooklyn, N.Y.
A.B., Columbia, 1953
Glaubach, Arthur J. Brooklyn, N.Y.
A.B., Brooklyn, 1953
Grossman, Robert G. New York City
A.B., Swarthmore, 1953
Gutmann, Alice New York City
A.B., Wellesley, 1952
Hammer, Earle I. Utica, N.Y.
A.B., Michigan, 1953

[1] Withdrew

Harter, Donald H. Kew Gardens, N.Y.
A.B., Pennsylvania, 1953
Hermann, John S. Brooklyn, N.Y.
A.B., Harvard, 1953
Hinds, Manuel J. A. New York City
B.S., Fordham, 1953
Hirsh, Charles H. Brooklyn, N.Y.
A.B., Brown, 1953
Horowitz, Iona B. Brooklyn, N.Y.
A.B., Vassar, 1953
Hyde, Richard W. Bedford, N.Y.
A.B., Yale, 1953
Jackman, Allan E. Brooklyn, N.Y.
A.B., Columbia, 1953
Javid, Jamshid Fort Lee, N.J.
B.S., College of the City of New York, 1953
Jewett, Frank S. Southport, Conn.
A.B., Yale, 1953
Johnson, Mayo New York City
A.B., Dartmouth, 1953
Jordan, Ruth A. New Castle, Indiana
A.B., Indiana, 1950
Kelly, Eugene R. Peekskill, N.Y.
A.B., Dartmouth, 1950; A.M., Pennsylvania, 1952
Kennedy, Paul A. Tenafly, N.J.
A.B., Holy Cross, 1953
Kepler, Marcia A. St. Charles, Minn.
B.S., Minnesota, 1952
Kessler, Susan R. New York City
A.B., Vassar, 1953
Kimberg, Daniel V. New York City
A.B., Washington and Jefferson, 1953
Koff, Arnold M. Brooklyn, N.Y.
A.B., Adelphi, 1953
Kogel, Isobel T. Forest Hills, N.Y.
A.B., Vassar, 1953
Kwit, Robert B. Bronx, New York
A.B., Harvard, 1953
Lafer, Dennis J. Maplewood, N.J.
B.S., Haverford, 1953
Lazor, Michael Z. Tarrytown, N.Y.
A.B., Williams, 1953
Leach, Robert E. New York City
A.B., Princeton, 1953
Lerner, Burton A. New York City
A.B., Columbia, 1953
Linsky, Ronald M. Kew Gardens, N.Y.
A.B., Columbia, 1953
Lyle, Carl B., Jr. Rogersville, Tenn.
A.B., Princeton, 1953
McDonagh, Thomas J. New York City
B.S., College of the City of New York, 1953
Mancusi-Ungaro, Pier L. Newark, N.J.
A.B., Princeton, 1953
Mason, James L. El Paso, Texas
A.B., Yale, 1952
Metzger, Henry New York City
A.B., Rochester, 1953
Mooney, Vert Pittsburgh, Pa.
A.B., Princeton, 1953
Mooring, Paul K. Tarzana, Calif.
Mutter, Raymond D. Chatham, N.J.
B.S., Bates, 1953
Neri, Mario P. Providence, R.I.
A.B., Brown, 1950
Nicholson, Denis F. New York City
A.B., Columbia, 1953
Nydick, Martin Brooklyn, N.Y.
A.B., Hobart, 1953
Ormsby, John W. Fayetteville, N.C.
B.S., Davidson, 1953
Osborne, Alan W. Summit, N.J.
A.B., Princeton, 1953
Page, Lyman A. West Hartford, Conn.
A.B., Yale, 1953
Piotrowski, Stanley F. Philadelphia, Pa.
A.B., Columbia, 1953
Platt, Joan M. New Canaan, Conn.
A.B., George Washington, 1948; A.M., Bryn Mawr, 1950
Pollack, Simeon New York City
A.B., Columbia, 1954
Post, Stephen L. St. Louis, Mo.
A.B., Princeton, 1950
Rathe, John C. Waverly, Iowa
A.B., Carleton, 1953
Raymond, Samuel New York City
A.B., Swarthmore, 1941; Ph.D., Pennsylvania, 1945
Reilly, Robert J. Brooklyn, N.Y.
B.S., Fordham, 1953
Rhangos, William C. Lowell, Mass.
A.B., Yale, 1953
Richardson, John W. Oklahoma City, Oklahoma
A.B., Yale, 1953
Richey, Katherine E. New York City
A.B., Vassar, 1945; A.M., Columbia, 1948
[1]Rieck, Carl E., Jr. Pittsburgh, Pa.
A.B., Yale, 1952
Roberts, Clifford E., Jr. Seneca, Md.
A.B., Haverford, 1953
Roberts, John M. Hamden, Conn.
A.B., Yale, 1953
Robinson, Dwight R. Mendham, N.J.
A.B., Cornell, 1953
Roven, Robert B. Mahopac, N.Y.
A.B., Columbia, 1953
Saunders, Bartlett M. New York City
A.B., Columbia, 1953
Sciarra, John J. West Haven, Conn.
B.S., Yale, 1953
Seiden, Ruth E. Jamaica, N.Y.
A.B., Wellesley, 1953
[1]Selleck, David B. Setauket, N.Y.
A.B., Colgate, 1953
Shields, Charles E. Silver Springs, Md.
A.B., Yale, 1953
[1]Staley, Thomas F., Jr. Rye, N.Y.
B.S., Davidson, 1953
Stites, Temple B. Louisville, Ky.
A.B., Williams, 1953
Strauss, Eric Flushing, N.Y.
A.B., Yale, 1953
Tenduf La, Tenki Sangmu Darjeeling, India
B.S., Calcutta, 1951
Theobald, Thomas J. Port Washington, N.Y.
B.S., Fordham, 1953
Tignor, Sterling P. Washington, D.C.
B.S., Yale, 1953
Traeger, Donald M. Brooklyn, N.Y.
A.B., Princeton, 1953
Unger, Harlow G. New York City
A.B., Yale, 1953
Visokay, Charles F., Jr. Bridgeport, Conn.
B.S., Yale, 1951
Vorhaus, Elaine F. New York City
A.B., Barnard, 1953
Wallace, Robert B. Washington, D.C.
A.B., Columbia, 1953
Walzer, Robert S. Brooklyn, N.Y.
A.B., Columbia, 1953
Weiner, Robert M. Swampscott, Mass.
A.B., Harvard, 1953

[1] Withdrew

Weir, William S. Louisville, Ky.
A.B., Louisville, 1954
Weser, Elliot New York City
A.B., Columbia, 1953
Wharton, Ralph N. Brookline, Mass.
A.B., Harvard, 1953
Wheeler, William M. Chestnut Hill, Mass.
A.B., Harvard, 1953
Wilcox, Donald F. Greenfield, Mass.
A.B., Yale, 1953
Wilson, Peter G. New York City
A.B., Columbia, 1953
Wohl, Martin J. Brooklyn, N.Y.
A.B., Harvard, 1953
Zarem, Harvey A. Savannah, Georgia
A.B., Yale, 1953
Ziskind, Charlotte Glens Falls, N.Y.
A.B., Rochester, 1953
Zuckerman, Frederick New York City

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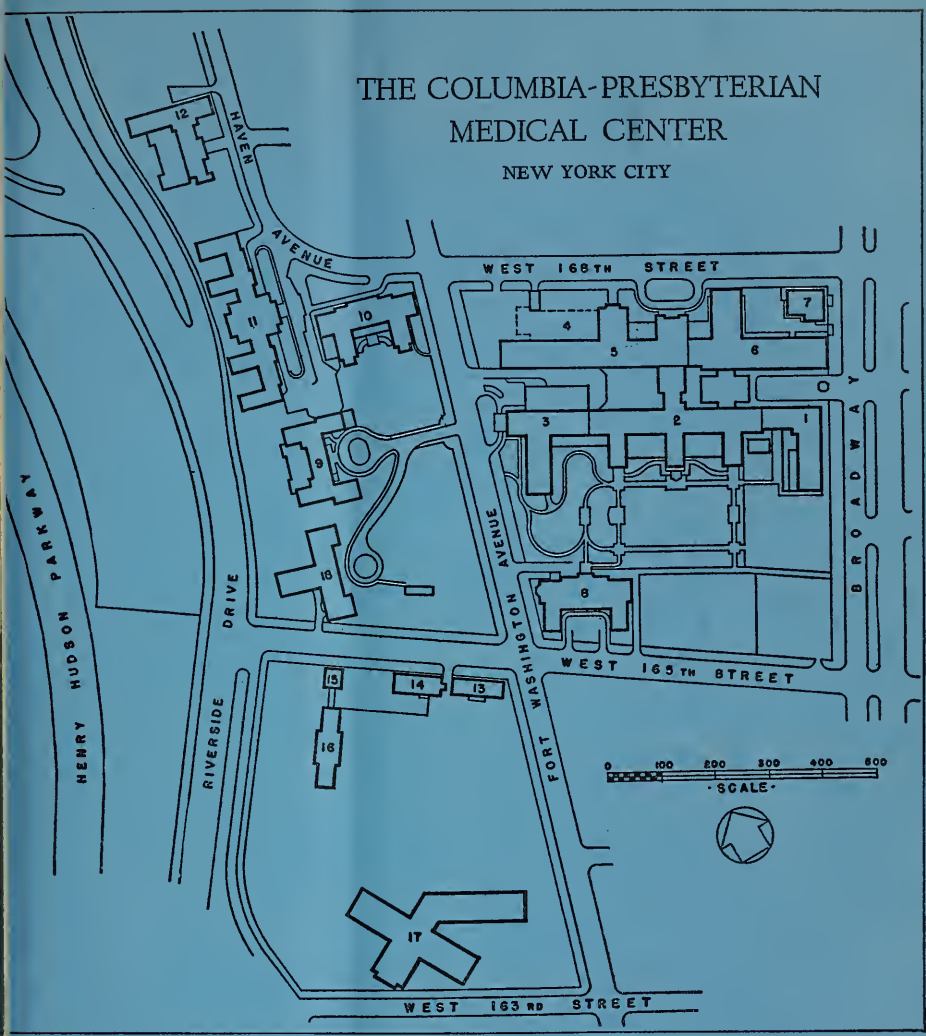

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esbyterian Hospital
oane Hospital
ew York Orthopaedic Hospital
arkness Pavilion
ower plant
ollege of Physicians and Surgeons
anderbilt Clinic
chool of Dental and Oral Surgery
Vashington Heights Health and Teaching Center, New York City Department of Health
chool of Public Health

8. Institute of Ophthalmology
9. Maxwell Hall
10. Neurological Institute
11. New York State Psychiatric Institute and Hospital
12. Bard Hall
13, 16. Storage
14. Shops
15. Housing
17. Francis Delafield Hospital, New York City Department of Hospitals
18. Edward S. Harkness Memorial Hall

COLUMBIA UNIVERSITY
BULLETIN OF INFORMATION
Fifty-fifth Series, No. 35 September 3, 1955

ANNOUNCEMENT OF THE

COLLEGE OF PHYSICIANS AND SURGEONS

FACULTY OF MEDICINE
COLUMBIA UNIVERSITY

1955-1956

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Columbia University Bulletin of Information

Fifty-fifth Series, No. 35 September 3, 1955

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C.U.P. 8,500—1955

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COLUMBIA UNIVERSITY PRESS

View of Bard Hall from Riverside Drive

Columbia-Presbyterian Medical Center

CONDENSED ACADEMIC CALENDAR

The complete Academic Calendar for the year 1955–1956 may be obtained from the Secretary of the University.

1955

May	19	Thursday, through May 20, Friday. Registration (including payment of fees) for the Third- and Fourth-Year Classes.
June	**1**	**Wednesday. New academic year begins for the Fourth-Year Class.**
June	**6**	**Monday. New academic year begins for the Third-Year Class.**
August	1	Monday. Last day for filing application or renewal of application for all degrees and certificates to be conferred in October. The privilege of later application may be granted on payment of a late fee.
September	8	Thursday, through September 10, Saturday. Registration (including payment of fees) for First- and Second-Year Classes.
September	**12**	**Monday. Classes begin.**
October	8	Saturday. Last day for filing at the office of the Registrar essays previously approved by departments for the degree of Med.Sc.D. to be awarded in October.
November	8	Tuesday. Election Day. Holiday.
November	24	Thursday. Thanksgiving Day. Holiday.
December	1	Thursday. Last day for filing application or renewal of application for all degrees and certificates to be awarded in February. The privilege of later application may be granted on payment of a late fee.
December	**19**	**Monday, through**

1956

January	**2**	**Monday. Christmas holidays.**
February	22	Wednesday. Washington's Birthday. Holiday.
March	1	Thursday. Last day for filing application or renewal of application for all degrees and certificates, except doctoral degrees, to be conferred in June. The privilege of later application may be granted on payment of a late fee.
March	**26**	**Monday, through March 31, Saturday. Easter holidays.**
April	2	Monday. Last day for filing at the office of the Registrar dissertations for the degree of Med.Sc.D., to be conferred in June.
		Last day for filing Cutting Fellowship applications.
May	21	Monday, through May 31, Thursday. Final examinations.
May	30	Wednesday. Memorial Day. Holiday.
June	**5**	**Tuesday. Conferring of degrees.**

FACULTY OF MEDICINE

OFFICERS OF THE FACULTY

Grayson Kirk, Ph.D., LL.D. . . . . *President of the University*
John A. Krout, Ph.D., L.H.D., LL.D. . . . *Vice President and Provost of the University*
Willard C. Rappleye, A.M., M.D., Sc.D., Med.Sc.D. . . . *Vice President in Charge of Medical Affairs; Dean of the Faculty of Medicine*
Aura Edward Severinghaus, A.M., Ph.D. . . . . *Associate Dean; Secretary*
James E. McCormack, M.D. . . . . *Associate Dean (Graduate Studies)*
Ray E. Trussell, M.D., M.P.H. . . . . *Associate Dean (Public Health)*
Maurice J. Hickey, D.M.D., M.D. . . . . *Associate Dean (Dental and Oral Surgery)*

THE FACULTY

Hattie E. Alexander
Dana W. Atchley
E. Dwight Barnett
James Bordley III
Stanley E. Bradley
Harold W. Brown
Stanley M. Bysshe
E. Gurney Clark
Hans T. Clarke
Robert W. Coon
Wilfred M. Copenhaver
Robert C. Darling
D. Anthony D'Esopo
Samuel R. Detwiler
John H. Dunnington
Robert H. E. Elliott
Earl T. Engle
John W. Fertig
Thomas P. Fleming
Goodwin L. Foster
Edmund P. Fowler, Jr.
Virginia K. Frantz
Alfred Gilman
Magnus I. Gregersen
Franklin M. Hanger, Jr.
Michael Heidelberger
Maurice J. Hickey
Horace L. Hodes
George H. Humphreys II
Harold W. Jacox
Yale Kneeland, Jr.
Lawrence C. Kolb
John K. Lattimer
Tiffany Lawyer
Eleanor Lee
Barnet M. Levy
Kenneth M. Lewis
Robert F. Loeb
John H. McClement
James E. McCormack
Rustin McIntosh
Monroe A. McIver
Irville H. MacKinnon
Rollo J. Masselink
H. Houston Merritt
Frederick A. Mettler
Carl T. Nelson
John L. Nickerson
Carl R. Oman
Emanuel M. Papper
George A. Perera
J. Lawrence Pool
Charles A. Ragan
Willard C. Rappleye
Dickinson W. Richards
Walter S. Root
Harry M. Rose
Rudolph N. Schullinger
Beatrice C. Seegal
David Seegal
Aura E. Severinghaus
Lawrence W. Sloan
Alan deForest Smith
Gilbert P. Smith
Harry P. Smith
Thomas W. Stevenson
Lewis R. Stowe
Howard C. Taylor
Ray E. Trussell
Harry B. van Dyke
Carmine T. Vicale
Abner Wolf

PROFESSORS EMERITI

J. Burns Amberson . . . . . *Medicine*
Adolph Berger . . . . . *Oral Surgery*
Charles F. Bodecker . . . . . *Dentistry*
George F. Cahill . . . . . *Urology*
Louis Casamajor . . . . . *Neurology*
A. Raymond Dochez . . . . . *Bacteriology*
Henry S. Dunning . . . . . *Dentistry*
William B. Dunning . . . . . *Dentistry*
Bion R. East . . . . . *Dental Public Health Practice*
Haven Emerson . . . . . *Public Health Practice*
Ross Golden . . . . . *Radiology*
A. Philip Goodhart . . . . . *Neurology*
James W. Jobling . . . . . *Pathology*
John D. Kernan . . . . . *Otolaryngology*
Arnold Knapp . . . . . *Ophthalmology*
Albert R. Lamb . . . . . *Medicine*
Maurice Lenz . . . . . *Radiology*
Robert L. Levy . . . . . *Medicine*
Charles C. Lieb . . . . . *Pharmacology*
Ewing C. McBeath . . . . . *Dentistry*
Frank L. Meleney . . . . . *Surgery*
Harry S. Mustard . . . . . *Public Health Practice*
William Barclay Parsons . . . . . *Surgery*
Henry Alsop Riley . . . . . *Neurology*
Fordyce B. St. John . . . . . *Surgery*
Philip E. Smith . . . . . *Anatomy*
Byron Stookey . . . . . *Neurological Surgery*
Arthur Purdy Stout . . . . . *Surgery*
Benjamin P. Watson . . . . . *Obstetrics and Gynecology*
Jerome P. Webster . . . . . *Surgery*
Allen O. Whipple . . . . . *Surgery*
Horatio B. Williams . . . . . *Physiology*
I. Ogden Woodruff . . . . . *Medicine*
Edwin G. Zabriskie . . . . . *Neurology*

DELEGATES TO UNIVERSITY COUNCIL

Professors Franklin M. Hanger, Jr. (1958) and H. M. Rose (1956)

COMMITTEES

Administration

The Dean, *Chairman;* Professors Clarke, Detwiler, Gregersen, Hickey, Humphreys, Jacox, Kolb, Loeb, McIntosh, Merritt, Rose, H. P. Smith, Taylor, Trussell, van Dyke, and Associate Deans McCormack and Severinghaus

Admissions

Associate Dean Severinghaus, *Chairman;* Professors Bailey, Cooper, Elftman, V. K. Frantz, Hanger, A. R. Lamb, Jr., McCormack, G. A. Perera, D. Seegal, Dr. Plimpton, and the Dean, ex officio

Graduate Clinical Instruction

Associate Dean McCormack, *Chairman;* Professors Detwiler, Fowler, Gregersen, Humphreys, Jacox, Kolb, Loeb, McIntosh, Merritt, Rose, Severinghaus, H. P. Smith, Taylor, and the Dean, ex officio

JOINT ADMINISTRATIVE BOARD

Willard C. Rappleye (advisory)

Representing Columbia University

Mr. Frank D. Fackenthal, Mr. Walter D. Fletcher, Mr. George L. Harrison, Dr. John J. H. Keating, Mr. William S. Paley, and Mr. Thomas I. Parkinson

Representing Presbyterian Hospital

Mr. Charles P. Cooper, Mr. Malcolm P. Aldrich, Mr. Henry C. Alexander, Mr. Edward C. Bench, Mr. W. E. S. Griswold, Jr., Mr. Charles S. Munson, Mr. Edward A. Newberry, and Mr. William Wardell

ADMINISTRATIVE STAFF AT COLLEGE OF PHYSICIANS AND SURGEONS

Inez E. Klinck, A.B. . . . . *Administrative Assistant to the Dean*
Bernis D. Moss, Jr., M.S. . . . . *Business Officer*
Eileen H. Daly . . . . . *Assistant to the Registrar*

THE SCHOOL OF MEDICINE

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine in course. The first individuals to graduate in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May, 1769, and that of Doctor of Medicine in May, 1770, and May, 1771, respectively. Instruction in medicine was given until the War of the Revolution. In 1784 instruction was resumed in the academic department. Eight years later the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College, as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the College was incorporated as an integral part of the University. Since September, 1917, women have been admitted to the School on the same basis as men.

In 1945 the medical faculty was made responsible for the educational programs in Medicine, Dental and Oral Surgery, Public Health, and Nursing. At that time there were named associate deans for Medicine, Dental and Oral Surgery, Public Health, and Nursing.

The School of Medicine as a part of the Medical Center occupies a site on West 168th Street between Broadway and Fort Washington Avenue. It is housed in a seventeen-story, fire-resisting, steel, brick, and concrete building, each floor connecting with the wards and services of Presbyterian Hospital.

SCHOOL OF DENTAL AND ORAL SURGERY

The School of Dental and Oral Surgery became a part of the Faculty of Medicine on July 1, 1945.

The course in dentistry covers four academic years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of the College of Physicians and Surgeons.

For information regarding this course of study apply to the Dean's Office, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N.Y.

SCHOOL OF PUBLIC HEALTH AND ADMINISTRATIVE MEDICINE

The School of Public Health and Administrative Medicine is part of the medical faculty of Columbia University and shares in the research and teaching resources of the Columbia-Presbyterian Medical Center and of the affiliated hospitals and clinics. It is fortunate in being able to utilize the unusually large number of extramural public health facilities in and around New York City. Collectively, these resources and affiliations make

it possible to provide graduate students with an unusually complete and diversified experience in the general organization and administration of official and nonofficial public health, hospital, and medical care agencies; in the clinical and epidemiological aspects of the acute communicable diseases, tuberculosis, and the venereal diseases; in programs in maternal and child hygiene, school health work, food control, milk sanitation, housing, the operation of water and sewerage plants, industrial hygiene and medicine, hospital administration, and vital statistics. These affiliations also make it possible to obtain for research and teaching purposes clinical and laboratory material in parasitology, tropical diseases, and medical entomology.

DEPARTMENT OF NURSING

The establishment in 1937 of the Department of Nursing of the Faculty of Medicine marked another step in the close cooperation between Presbyterian Hospital and Columbia University in the education of personnel for the medical and allied professions. The Board of Trustees of the Presbyterian Hospital has considered the education of nurses one of its primary responsibilities since 1892, when the School of Nursing was founded under the direction of Anna C. Maxwell.

The basic course in nursing is an integral part of a larger educational program designed not only as a sound preparation for the usual practice of bedside nursing, but also as a foundation for further education in the fields of public health nursing, school and industrial nursing, nursing school administration, and other phases of nursing practice and education.

PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

The Faculty of Medicine offers a program of study leading to a Bachelor of Science degree in physical therapy and in occupational therapy or, for those who already have a Bachelor's degree, a Certificate of Proficiency in Physical Therapy or in Occupational Therapy.

Information regarding courses may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y.

ANNOUNCEMENTS

The announcements of the above schools and of the other colleges and schools of the University and of the Summer Session may be obtained without charge by writing to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N.Y.

Letters requesting further information than is contained in this announcement, and all correspondence regarding admission, should be addressed to the Dean of the Faculty of Medicine, 630 West 168th Street, New York 32, N.Y.

For information pertaining to the staffs of hospitals at the Columbia-Presbyterian Medical Center and other hospitals affiliated for teaching purposes, described on pages 7 to 9, see the annual publications of these institutions.

FACILITIES

THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER

A permanent affiliation between Columbia University and Presbyterian Hospital was established in 1921. The College of Physicians and Surgeons of Columbia University in conjunction with Presbyterian Hospital and several other institutions comprising the Medical Center now occupy a plot of land given to Columbia University and Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. The land, extending from West 165th Street to West 168th Street and from Broadway to Riverside Park, comprises about twenty acres and is readily accessible from all parts of the city.

The Medical Center was opened in the spring of 1928. The Medical Center group consists of the following units: the College of Physicians and Surgeons, School of Dental and Oral Surgery, Department of Nursing, School of Public Health and Administrative Medicine, Washington Heights Health and Teaching Center, New York State Psychiatric Institute, the Francis Delafield Hospital; the Presbyterian Hospital and its subdivisions: the Squier Urological Clinic, the Institute of Ophthalmology, Harkness Pavilion, Sloane Hospital for Women, Vanderbilt Clinic, Babies Hospital, Neurological Institute, the New York Orthopaedic Dispensary and Hospital, and the Mary Harkness Convalescent Home.

Presbyterian Hospital was founded in 1868. The hospital occupies a twenty-two-story building in which are the wards of the medical and surgical services, the Sloane Hospital for Women, and the Squier Urological Clinic. To provide for personal contact between doctor and patient, the hospital is divided into floor units of between sixty and seventy beds. Harkness Pavilion for private patients is connected with the main building. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the Hospital on nomination by the Trustees of the University. There are 442 (Sloane, Squier, Presbyterian) teaching beds.

Squier Urological Clinic occupies the tenth floor of the Presbyterian Hospital building and the tenth floor of Babies Hospital. There are sixty-seven beds for the care of adults and nineteen beds for babies and children. There are laboratories fully equipped to do diagnostic, X-ray, microbiological, pathological, fluoroscopic, and research work. The clinic has two large, especially equipped operating rooms. The urological outpatient department, situated in Vanderbilt Clinic, is fully equipped for cystoscopic, X-ray, and laboratory work.

The Institute of Ophthalmology was made possible by the generosity of Edward S. Harkness. The hospital and laboratories for the study of diseases of the eye are active in the training of physicians and nurses. The hospital contains fifty-seven ward beds.

Harkness Pavilion, which contains 283 beds, is available for the accommodation of private patients of the attending staff.

Sloane Hospital for Women, originally at West 59th Street and Amsterdam Avenue, was presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now occupies three floors of the Presbyterian Hospital building for ward and semiprivate patients and two floors in Harkness Pavilion for private patients. The wards of the hospital furnish 116 beds for obstetrical and gynecological patients. Patients, other than emergencies, are admitted to the hospital through Vanderbilt Clinic. The deliveries in the hospital number about thirty-five hundred a year.

Vanderbilt Clinic, presented by the Vanderbilt family to Columbia University in 1888, is the outpatient department common to all the hospitals in the Medical Center. It is a fully equipped dispensary for the sick poor. The professors of the Medical School, with their assistants, have charge of its professional services. The building is so arranged that each department has rooms for practical instruction in small sections. All modern

appliances for the treatment of disease are available, so that the students can learn thoroughly the use of all methods in each of the special departments of medicine. A Group Practice Clinic, which was organized in Vanderbilt Clinic in 1946, has proved to be a forward step in the treatment of patients as well as of great value in the teaching of fourth-year medical students.

Babies Hospital provides for general medical and surgical care of infants and children up to and including twelve years of age. One floor of the hospital is devoted to the care of private and semiprivate patients. Three floors are equipped with laboratories. Both outdoor and indoor playrooms are provided for convalescent children. The total capacity of the hospital is 192 beds. Laboratories are operated for the routine and research work of the hospital in pathology, microbiology, and chemistry. An outpatient department is maintained in Vanderbilt Clinic by the visiting and house staff of the hospital. In addition to the general medical and surgical clinics, there are special clinics for the care of premature infants and for patients suffering from heart disease, tuberculosis, epilepsy, asthma, and other diseases.

Neurological Institute, one of the first nongovernmental hospitals in this country for the treatment of nervous diseases, was founded in 1909. The original building at 149 East 67th Street was occupied continuously up to March, 1929, when the Institute was moved to the Medical Center. This has made possible the development of a broad basic program of teaching and research in neurology and in the treatment of the sick in the affiliated units of the Medical Center. The present hospital has 124 ward beds and is devoted exclusively to the treatment of diseases of the nervous system and surgical conditions of the brain and nervous system. Facilities are provided for bedside teaching in the wards for both undergraduate and graduate students.

New York Orthopaedic Dispensary and Hospital, established in 1868, was consolidated with the Presbyterian Hospital in 1945. It was moved to the Columbia-Presbyterian Medical Center in December, 1950, and is now an integral part of the Presbyterian Hospital and Medical School. It has 83 ward beds. Facilities are available for the care and treatment of orthopedic conditions and fractures in children and adults. Teaching laboratories are provided in the Medical School.

New York State Psychiatric Institute is a 168-bed hospital built and maintained by the state of New York, with provisions for the study and treatment of all types of psychiatric disorders. There are special facilities for the treatment of children presenting behavior and personality problems. Connected with the hospital is an active outpatient department providing diagnostic and treatment facilities. The hospital maintains special clinical and research laboratories and an extensive psychiatric library. The members of the hospital staff have teaching appointments in the Department of Psychiatry and take an active part in the instruction of the medical students.

Francis Delafield Hospital is a 300-bed hospital for the treatment and study of cancer, built and maintained by the city of New York. A program of research and of graduate and undergraduate instruction in the malignant diseases is conducted in that hospital under the terms of an agreement with the city of New York whereby Columbia University nominates the entire professional staff. The hospital is equipped with three floors of laboratories for research and has a modern outpatient department and up-to-date facilities for all methods of study and treatment of cancer.

OTHER HOSPITALS USED FOR TEACHING

Bellevue Hospital, a unit of the New York City Department of Hospitals, was founded in 1736 as a "Publick Workhouse and House of Correction of the City of New York,"

and received its present name in 1816. It has 2,884 beds used for the treatment of acute diseases. One of its four divisions has been utilized for instruction by the Faculty of the College of Physicians and Surgeons for over one hundred years. The staff of the service is appointed by the Commissioner of Hospitals on the nomination of Columbia University. During the fourth year, clinical clerkships are provided in general medicine, general surgery, and tuberculosis. A unit of 316 beds for chest diseases under the Columbia division provides the most up-to-date equipment and facilities for diagnosis and therapy in tuberculosis and other pulmonary disorders.

Goldwater Memorial Hospital in the Department of Hospitals of New York City was opened on Welfare Island in 1939 to fill the need for intensive research in chronic diseases and to establish adequate facilities for the care of the chronically ill. It contains 1,472 beds. The First Division of the hospital, which is under the auspices of Columbia University, contains 100 research beds and is used for instruction of undergraduate and postgraduate students in the problems of chronic disease.

Hospital for Joint Diseases, established in 1905 as a hospital for deformities and joint diseases, accommodates 362 patients, including 60 in the Country Home at Far Rockaway.

Institute for the Crippled and Disabled, founded in May, 1917, was the first modern rehabilitation center established in the United States. The program of rehabilitation at the Institute is integrated with the orthopedic, medical, and other professional activities of the Medical Center through the Department of Physical Medicine and Rehabilitation of the University and a corresponding service in Presbyterian Hospital.

Margaret Hague Maternity Hospital, a unit of the Jersey City Medical Center, has a capacity of 345 teaching beds. An affiliation with Columbia University was arranged in 1935 for postgraduate instruction in obstetrics.

Mary Imogene Bassett Hospital in Cooperstown, New York, is affiliated with the University for the teaching of medicine and surgery. It has 112 beds.

Montefiore Hospital for Chronic Diseases, founded in 1884, has a capacity of 848 beds devoted to the treatment of chronic diseases. The neurological division of 160 beds is used for undergraduate instruction. Short courses for graduates are given annually in collaboration with Columbia University.

Mount Sinai Hospital, organized in 1852, accommodates 971 patients. Since 1923 the hospital has been affiliated with Columbia University for postgraduate instruction, particularly for physicians in general practice and for elective undergraduate work in pediatrics and obstetrics. There are 432 beds available for teaching purposes.

Roosevelt Hospital, established in 1864, is a general hospital containing 403 beds. Its facilities are used in the teaching of medicine and surgery to undergraduate and postgraduate students.

St. Luke's Hospital, established in 1850, contains 538 beds, including 80 beds for infants and children. It is affiliated with the University for the teaching of undergraduates, and all services participate in the program of graduate medical education.

Willard Parker Hospital, a unit of the New York City Department of Hospitals, established in 1886, contains 433 beds and cribs for the treatment of communicable diseases and tuberculosis. The facilities of this hospital are used for instruction of undergraduates in the diagnosis and treatment of communicable diseases.

Woman's Hospital, founded in 1855, was the first institution established by women "for the treatment of diseases peculiar to women and for the maintenance of a Lying-In Hospital." It has 192 beds. In 1937 an affiliation was arranged with Columbia University to participate in the program of training specialists in obstetrics and gynecology.

LIBRARY

The Medical Library occupies parts of the three lower floors in the College of Physicians and Surgeons. It provides current literature (both books and journals) for faculty and students, and it aids in research through its own collections of current and historical works, through interlibrary loans, and through its unique bibliographic service.

The Library contains approximately two hundred thousand volumes of books and journals, some five thousand pamphlets, and about two thousand lantern slides on the history of medicine. More than twenty-three hundred periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the schools of Medicine, Dentistry, Nursing, and Public Health and Administrative Medicine, and in the hospitals of the Medical Center.

The libraries on Morningside Heights, containing more than two million volumes, are open to all students of medicine. They include collections on biology, chemistry, physics, psychology, sociology, and other subjects related to medicine and supplement the special collections available in the Medical Library. Books may be borrowed for home use.

The Medical Library is open Monday through Friday, 8 A.M. to 10 P.M.; Saturday, 9 A.M. to 6 P.M.; and Sunday, 12 M to 5 P.M.

BARD HALL

Bard Hall, the residence for students of the Medical School, is located on property of the Medical Center at 50 Haven Avenue. It is eleven stories high with three additional stories in the north wing and occupies a site overlooking Riverside Park and the Hudson River. The facilities of the Hall include lounging rooms, a dining room, a cafeteria and grillroom, a gymnasium, squash courts, and a swimming pool.

The first, second, and third floors are arranged to accommodate women students.

Rates for accommodations range from $196 to $455 for the academic year of thirty-eight weeks. First- and second-year medical student residents subscribe to a five-day-per-week, fifteen-meal prepaid board plan. The present rate is $335 for the academic year, exclusive of the Christmas and Easter holiday periods. In case of marked increase in operating costs, all rates are subject to change. Room application blanks and further information concerning rates will be furnished on request by the Bard Hall Office, 50 Haven Avenue, New York 32, N.Y.

BARD HALL CLUB

Alumni and members of the staff of the College of Physicians and Surgeons are entitled to use the facilities of Bard Hall, the residence for medical students at 50 Haven Avenue, upon payment of the membership fee of $10. The facilities include lounge rooms, dining and grillrooms, gymnasium, squash courts, and swimming pool. Application for membership and guest cards should be made at the Bard Hall desk.

STUDENT HEALTH SERVICE

Daily office hours are held by the Student Health Service for sick students in Room 2-200, Vanderbilt Clinic. Members of the Health Service are available to attend sick students who live near the Medical Center. Students requiring hospitalization will be taken care of either in the wards of the Medical Center or elsewhere under a hospitalization insurance policy.

UNIVERSITY PRIVILEGES

All students enrolled in the Medical School enjoy the privileges and facilities of the University campus, including access to the University libraries, gymnasium, Appointments Office, and other activities.

REGISTRATION OF STUDENT ORGANIZATIONS

Student organizations may be granted the privileges of the use of names in which the name of the University is embodied or suggested and the use of University rooms for meetings and of bulletin boards for announcements only if they have filed their registration blanks, furnishing the Dean with lists of officers and other executive members, statements of purposes, copies of constitutions and bylaws, and information concerning the nature of any affiliation or connection with non-University organizations.

Blanks for the registration of student organizations, other than those for which the responsibility is assumed by a faculty or department of instruction, may be obtained from the Dean's office.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 A.M. to 5:30 P.M.

THE ALPHA OMEGA ALPHA HONORARY FRATERNITY

The Alpha Omega Alpha honorary fraternity is a nonsecret, fourth-year, medical honor society, membership in which is based upon scholarship and moral qualifications. A chapter of this society was organized at the College of Physicians and Surgeons in 1907.

ALUMNI ASSOCIATION OF THE COLLEGE OF PHYSICIANS AND SURGEONS

Membership in the Alumni Association of the College of Physicians and Surgeons is open to any graduate of the College in good professional standing who will notify the Secretary, Frederick E. Lane, 630 West 168th Street, New York 32, N.Y., of his desire to join. Annual membership dues are $5.00; life membership, $100. Application blanks for membership may be obtained from the cashier at the time of application for the degree of Doctor of Medicine.

ADMISSION, REGISTRATION, AND EXPENSES

ADMISSION TO THE FIRST YEAR

Entering classes will be enrolled in the Medical School once each year in September and will complete the prescribed course in four years. The entering class will register September 8–10, 1955. Application for admission can be made for the next incoming class only, and requests for application forms should be addressed to the Dean. Every application should be accompanied by a check or money order for $5.00, payable to Columbia University, to cover the cost of processing the application. The fee is not returnable.

The Committee on Admissions devotes months to the task of selecting a class of one hundred and twenty from a very large number of applicants. Obviously there will be many well-qualified students whom the School will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation and to the world as well, and welcomes qualified candidates from widely distributed geographical areas, provided they meet the standards of admission.

The minimum requirement for admission to the first-year class is attendance for three full academic years at an approved college of arts and sciences, although most applicants present four academic years and a baccalaureate degree. The Committee on Admissions gives priority to the more advanced students.

The liberal arts program must include English, physics, and biology, covering at least one academic year each, and courses in chemistry covering at least one and a half academic years, including a course in organic chemistry. The student may concentrate on the subject of his choice, whether in the natural sciences, social sciences, humanities, or arts, but evidence of a balanced education, rather than a preparation limited largely to the natural sciences, is preferred.

The Committee places great importance on the fact that the student has learned to think for himself, to explore, to work hard under his own initiative, to face alternatives and make decisions, and to develop a desire for a continuous program of self-education. Preference is given in the selection of students to those who have shown, in the opinion of the Committee on Admissions, high achievement in their college education, a mature sense of values and sound motivation, qualities of leadership, willingness and ability to assume responsibility, and who, therefore, have already given evidence that they are likely to become ethical, well-trained, and competent physicians.

The practice of medicine is both a science and an art, and to treat the patient as a whole man, the doctor must be a whole man himself. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and a more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education.

If a personal interview is required in connection with the application, it will be requested by the Dean's office.

ADMISSION TO ADVANCED STANDING

Only a limited number of vacancies occur during the medical course, and students can be accepted on transfer from other schools only when such vacancies do occur. Any stu-

dent desiring to tranfer to the upper classes of the School should communicate with the Dean to learn if vacancies exist.

ADMISSION OF FOREIGN STUDENTS

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student desiring to apply to the Medical School should communicate with the Dean.

COMBINED COURSES WITH COLUMBIA COLLEGE

Upon the completion of ninety-six points,[1] sixty-four of which must have been taken in Columbia College, including all the work prescribed for the degree in Columbia College, a student may take studies in the first year of the College of Physicians and Surgeons, provided he can satisfy the stated requirements and is accepted for admission therein. Upon the satisfactory completion of the year's work, he will receive the degree of Bachelor of Arts from Columbia College. No course may be counted toward a professional degree and at the same time be included among those which go to make up these ninety-six points. This professional option has been abolished for students entering Columbia College in or after September, 1954.

MASTER OF ARTS AND DOCTOR OF PHILOSOPHY

A limited number of properly qualified students may be accepted by the departments of basic science in the Medical School as graduate students and as candidates for the degrees of Master of Arts and Doctor of Philosophy.

In addition to the general faculty requirements described in the Announcement of the Faculty of Pure Science, there are various supplementary departmental requirements. Students are therefore advised to consult with, and be approved by, the executive officer of the department in which they wish to enroll before attempting certification.

GRADUATE INSTRUCTION

A graduate student who desires to engage in special clinical or investigative work under the direction of a department may, with the approval of the Dean, register for this purpose for any period of the calendar year. The University fee for each such period not longer than a Winter or Spring Session shall be $20.

REGISTRATION

Before attending courses every student must present himself at the Office of the Registrar and file a registration blank giving such information as may be required. The office is situated on the second floor of the College of Physicians and Surgeons, 630 West 168th Street, and is open from 9 A.M. to 5 P.M. daily except Saturdays and holidays, and on Saturday from 9 A.M. to 12 M. The periods set aside for registration in each session are stated in the Academic Calendar at the beginning of this announcement. Registration at a later date is permitted only with the written consent of the Dean.

[1] A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week for a semester. Suitable laboratory work must be included in each of the courses in science.

FEES

The University Statutes provide that tuition fees and the University fee are payable each session in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the Office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of $3.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration. The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following annual fees are prescribed by statute for medical students:

a) University fee

For all students for one academic year, payable in two installments $ 40.00

b) Tuition fee

1. For the full course in medicine for one academic year (or equivalent), payable in two installments 825.00
2. For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes.
3. Summer Session, per point $ 25.00

c) Fee for application for a degree 20.00

d) Privileges

1. Late registration or late application for a degree or certificate or for deficiency or special examinations 3.00
2. Deficiency and special examinations 3.00
3. Renewal of application for any degree or certificate 1.00

e) Medical school athletic and recreational fee

This fee entitles students to use without charge the athletic and recreational facilities of Bard Hall, the residence for medical students. For all students, per academic year, payable in two installments 10.00

f) Student health and hospital fee

This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service. For all students, per academic year 25.00

g) Rebates

1. The University fee, the student health and hospital fee, and the fee for application for any degree shall not be subject to rebate.
2. If a student withdraws from the School a partial return of the tuition fee may be authorized by the Registrar.
3. When a rebate is allowed, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

h) Undue breakage

While no deposit is required of students to cover laboratory material and ordinary breakage, any unusual amount of breakage will be charged.

Acceptance fee. A student who has been notified that his application has been accepted should reply as early as possible stating whether or not he intends to matriculate. He may send with his letter of acceptance a check or money order for $50 payable to Columbia University to insure his place in the class. If accepted before January 1, he may request a postponement of payment of the acceptance fee until January 15. If accepted after January 1, he must notify the Dean and send his $50 acceptance fee within two weeks after he has received his letter of acceptance. This acceptance fee will be retained by the University. If the applicant does not register for the courses for the following academic year, it will not be returned, unless the University for any reason cancels the acceptance. If applicant registers at the School in the class to which he has been admitted, the amount of the acceptance fee will be credited to his tuition fees.

Fee for processing of application. A fee of $5.00 is charged to every student who applies for admission to the School of Medicine or the School of Dental and Oral Surgery. This fee covers the cost of processing the application and is not returnable.

Fee for repeated courses. Students obliged to repeat the work for any year are required to pay the full tuition fee.

Microscopes. All students entering the College of Physicians and Surgeons are required to provide themselves with microscopes of a satisfactory type. See page 55 for description and cost.

ESTIMATED EXPENSES FOR THE ACADEMIC YEAR

The following is an estimate of expenses of attendance at the College of Physicians and Surgeons for an academic year:

	Average	*Minimum*
Tuition and fees	$ 900	$ 900
Room	330	186
Board	600	500
Books and instruments*	200	150
Laundry	100	35
Personal expenses	350	250
TOTAL	$2,480	$2,021

* For the list of required and recommended textbooks and equipment, see pages 53–55 below.

FELLOWSHIPS, SCHOLARSHIPS AND PRIZES

FELLOWSHIPS

Bache. The Jules S. Bache Fellowship in obstetrics and gynecology, founded in 1945 by Mrs. Muriel Richards Pershing and Mrs. Dorothy Richards Hirshon, in memory of their grandfather, Dr. Jules S. Bache, is awarded to one or more graduate or undergraduate physicians who in the judgment of the Professor of Obstetrics and Gynecology are fitted to do special work in the field of obstetrics and gynecology.

Barnes-Foster. The Barnes-Foster Fellowship, established in 1950, is awarded to women graduate students for work in the field of gynecology. The value of the fellowship is about $3,100.

Baruch. The Bernard M. Baruch Fellowship in physical medicine and rehabilitation is awarded annually to two or three graduate physicians for graduate study in the field of physical medicine and rehabilitation. The annual stipend is normally $2,500 from the Bernard M. Baruch Gift to Columbia University.

Beekman. The Gerard Beekman Fellowship, founded in 1940 by The Beekman Family Association, is awarded annually. The value of the fellowship is about $1,500.

Cutting. The William Bayard Cutting Traveling Fellowships, founded in 1913 by Mrs. William Bayard Cutting in memory of her husband, William Bayard Cutting, LL.B., '71, A.M., '72, are awarded annually by the Trustees to men who have been in residence as graduate students and candidates for a higher degree under the Faculties of Political Science, Philosophy, or Pure Science for at least one academic year and to graduates of Columbia University in law, medicine, engineering, architecture, or music who have had at least one year of additional study as graduate students in this University. The normal stipend is $3,000.

Du Bois. The Dr. Abram Du Bois Fellowship, endowed by the two sons and the daughter of Abram Du Bois, M.D., Class of 1835, is open to a graduate of the College of Physicians and Surgeons who has given evidence of his serious intention to follow the subject of diseases of the eye as a specialty or to pursue studies in surgical pathology. The holder will devote his time to clinical and laboratory study of his subject at home or abroad. The value of the fellowship is about $900, the annual income of the fund.

Eckhouse. The Minnie Eckhouse Fellowship in neurological surgery enables the holder to follow the study of neurological surgery after graduation.

Ellis. Three George W. Ellis Fellowships are awarded annually by the University Council to qualified graduates of any of the colleges of recognized rank in the state of Vermont. A holder of the fellowship who is a student in medicine may be eligible for reappointment for not more than three additional years. The value of each fellowship is about $1,500, the annual income of the fund.

Gay. The Frederick Parker Gay Memorial Fellowship for graduate work in bacteriology is awarded annually on the nomination of the Executive Officer of the Department of Microbiology. The value of the fellowship is approximately $2,000.

Gies. The William J. Gies Fellowship is awarded annually on the nomination of the Executive Officer of the Department of Biochemistry. The appointment is made from among students who have prerequisites for admission to graduate study in biochemistry. The value of the fellowship is about $1,800, the annual income of the fund.

Holt. The L. Emmett Holt Fellowship in pediatrics is awarded annually by the University Council to a student of the graduating class of any medical school, or to a gradu-

ate of not more than six years' standing, to enable the recipient to study the diseases of children in this country or abroad. The value of the fellowship is about $1,500, the annual income of the fund. The holder of the fellowship is eligible for the award for a second year, but no person may hold the fellowship for more than two years.

James. The Walter Belknap James Research Fellowship in medicine is awarded annually by the Trustees. It is open to graduates in medicine. The value of the fellowship is about $2,500, the annual income of the fund. The holder of the fellowship must pursue advanced studies in medicine either at Columbia University or elsewhere.

Koplik. The Koplik Children's Scholarship is awarded every second year to the physician, under thirty years of age, who has shown special aptitude for original work in the investigation of the diseases of children. The value of the scholarship is about $1,100, the annual income for two years of the fund.

Lambert. The Samuel W. and Elizabeth W. Lambert Traveling Fellowship, established in 1948, in memory of Samuel W. and Elizabeth W. Lambert, is awarded to a student who plans to specialize in surgery.

Proudfit. The Maria McLean Proudfit Fellowship, endowed by the late Alexander Moncrief Proudfit, A.B., '92, is open to any son of native-born American parents who shall pursue advanced studies in internal medicine and who shall, while enjoying such fellowship, remain unmarried. The appointment is made every four years. The value of the fellowship is about $1,100, the income of the fund which has accrued during four years. It will be awarded next in 1957–1958.

Romaine. The DeWitt C. Romaine Fellowship for medical research in the College of Physicians and Surgeons was established in 1946 by the estate of C. Everetta Romaine.

Tilney. The Frederick Tilney Memorial Fund Fellowship, endowed by the Frederick Tilney Memorial Fund, Inc., enables the holder to pursue research projects in the field of neurology as may be recommended from time to time by the Executive Officer of the Department of Neurology in the College of Physicians and Surgeons, the Dean of the College of Physicians and Surgeons, and the President of the Board of Trustees of the Presbyterian Hospital.

Tucker. The Ervin Alden Tucker Fellowship in obstetrics, bequeathed by Mrs. Ervin Alden Tucker, enables the holder to follow the study of obstetrics after graduation. The value of the fellowship is about $2,500, the annual income of the fund.

SCHOLARSHIPS

Scholarship aid is provided in varying amounts depending upon the need of the student. Such assistance is usually awarded only to civilian students who have high academic records and promise.

Applications for scholarships must be made not later than one month before the end of the academic year on blanks which will be furnished on request at the office of the Dean.

Scholarships are tenable for one academic year. Applications must be made in each year for which a scholarship is desired. Scholars will be required to pay the balance of the tuition fees and all the other fees.

Alumni. A limited number of national scholarships are provided by gifts from the P & S Alumni Association and other contributors.

Anonymous. The Anonymous Scholarships are awarded annually to qualified students from the income of a gift from an anonymous donor.

Blumenthal. The George Blumenthal, Jr., Scholarships are maintained by the income of the George Blumenthal, Jr., Fund.

Butler. The Richard Butler Scholarship, for the benefit of male students born in the state of Ohio, is open for competition to qualified candidates who propose to enter Columbia College, or any one of the Graduate Faculties of Political Science, Philosophy, and Pure Science, or any one of the professional Schools of Law, Medicine, and Engineering. The scholarship is tenable for one academic year, with the possibility of renewal for two additional years.

Clark. The Alonzo Clark Scholarship, founded by the will of Alonzo Clark, M.D., LL.D., for many years President of the College of Physicians and Surgeons, is awarded annually.

Class of 1890. The Class of 1890 College of Physicians and Surgeons Scholarship Fund was given by a member of the Class of 1890, the income to be used annually for scholarship purposes.

Class of 1899. The Class of 1899 College of Physicians and Surgeons Scholarship Fund was given by the Class of 1899 in commemoration of the thirty-fifth anniversary of their graduation, the income to provide a resident scholarship awarded annually.

Class of 1912. The Class of 1912 College of Physicians and Surgeons Scholarship Fund was given by the Class of 1912 on the fifteenth anniversary of their graduation, the income to be used annually for scholarship purposes.

Class of 1920. The Class of 1920 College of Physicians and Surgeons Scholarship Fund was given by the Class of 1920 on the twenty-fifth anniversary of their graduation, the income to be awarded annually for scholarship purposes.

Dennett. The Horace Dennett Scholarships are awarded annually to students in the third and fourth years whose records for ability and scholarship give evidence of special fitness and who need financial aid to obtain an education.

Devendorf. The David M. Devendorf Scholarship was given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861. In awarding this scholarship, preference will be given to a qualified candidate from Herkimer County, New York, preferably to a candidate from the town of Herkimer.

Doughty. The Francis E. Doughty Scholarship was given by Miss Phoebe Caroline Swords in memory of Dr. Francis E. Doughty, Class of 1869.

Eichner. The Joseph Herman Eichner and Hannah Eichner Scholarship, founded in 1941 by the will of Benjamin Bernard Eichner, Class of 1919, is awarded annually.

George and Charlie. The George and Charlie Scholarship, created in 1942 in memory of George Peters and Charles Costello by the Alumni Association of the College of Physicians and Surgeons, is awarded annually.

Hanlon. The John F. Hanlon Scholarship, established by members of the Class of 1951 in memory of their classmate, John F. Hanlon, is awarded annually.

Harsen. Five Jacob Harsen Scholarships are awarded annually from the income of a fund established by Jacob Harsen, M.D., in 1859. Two of these scholarships are awarded to students in the second year of the medical course, two to students in the third year, and one to a student in the fourth year.

Hartley. The Frank Hartley Scholarship was established in 1914 by friends and colleagues in memory of Dr. Frank Hartley, Class of 1880.

Hemingway. The William H. Hemingway Scholarships, covering tuition, are awarded annually.

Huber. The Francis Huber Scholarship, provided by the income of a gift from Francis Huber, M.D., is awarded annually to a student from any institution other than Columbia University, the College of the City of New York, Barnard College, or Hunter College.

Huber. The Viola B. Huber Scholarship, provided by the income of a gift from Francis Huber, M.D., is awarded annually to a student from Hunter College.

Jacobi. Four Abraham Jacobi Scholarships are awarded annually from the income of a fund given by Francis Huber, M.D., in memory of Dr. Abraham Jacobi. Two are awarded to students from Columbia University and two others to students from the College of the City of New York.

McAneny. The Marjorie McAneny Scholarship is awarded annually from the income of a fund given by Francis Huber, M.D., to a student from Barnard College.

Markoe. The Francis Hartman Markoe Scholarship, established by Madeline Shelton Markoe in memory of her husband, is awarded annually.

Stewart. The Edgar Eginton Stewart, Jr., Memorial Scholarship, established by Dr. E. E. Stewart in memory of his son, is awarded annually.

Vosseler. The Theodore L. Vosseler Scholarships, given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler, are awarded annually to qualified students, especially graduates of Colgate University.

Wechsler. The Robert M. Wechsler Scholarship, established by Dr. I. S. Wechsler in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the Class of 1945 in memory of their classmate, is awarded annually.

Wilson. The Dr. James Lancelot Wilson Scholarship. In the words of the donor: "the income from this fund is to be awarded each year, without regard to race, creed or color, to a deserving male or female student suffering from ischemia of opportunity and finance; such student to be selected by the College of Physicians and Surgeons."

PRIZES

Coakley. The Coakley Memorial Prize is available for award annually by the Department of Otolaryngology to the student who, in the opinion of the Professor of Otolaryngology, has done the best work in the field for the current year. The value of the prize is $200.

Cock. The Thomas F. Cock, M.D., Prize is available for award annually at Commencement to the student in the College of Physicians and Surgeons who submits the best thesis on puerperal fever. The value of the prize is about $70, the annual income of the fund bequeathed by Augustus C. Chapin.

Gay. By gift there was established, in 1948, by Mrs. Frederick Parker Gay, the Frederick Parker Gay Memorial Award in memory of her husband. The award is to be given annually to a student doing outstanding work in microbiology, who is chosen by the Executive Officer of the Department of Microbiology and the Dean of the Faculty of Medicine. The annual amount of the award is about $30.

Janeway. The Janeway Prize is available annually for award to the student graduating from the College of Physicians and Surgeons who, in the opinion of the Faculty, has ranked highest in efficiency and ability. The value of the prize is about $50, the annual income of the fund bequeathed by Matilda S. J. Wisner.

Meierhof. The Dr. Harold Lee Meierhof Prize, founded by the parents of Dr. Harold Lee Meierhof, Class of 1917, is available for award annually by the Professor of Pathology to the student who, in the opinion of the Professor of Pathology, has done the best work in the field for the current year. The value of the prize is about $50, the annual income of the fund.

Parker. The Joseph Garrison Parker Award is given annually to that senior student in the College of Physicians and Surgeons who best exemplifies through a continuation of his or her personal interest and activities in art, music, literature, or the public interest,

the fact that Living and Learning go together. The award is made possible by a gift from Dr. and Mrs. Philip Parker in memory of their son, Joseph, P & S 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts were a constant source of inspiration.

Smith. The Joseph Mather Smith Prize is available for award annually to the graduate of the College of Physicians and Surgeons whose essay or original research in medical subjects is deemed by the Committee of Award to be the most meritorious. The value of the prize is about $260, the annual income of the Joseph Mather Smith Prize Fund.

Stevens Triennial. The Stevens Triennial Prize is available for award triennially to the person, not necessarily a graduate of the College of Physicians and Surgeons, who submits the best essay or original research on any medical subject. The value of the prize is about $200, the income of the fund.

Watson. By gift there was established in 1921 the Dr. William Perry Watson Foundation in Pediatrics, the annual income of which is awarded to the members of the graduating class showing the most efficient work in the study of the diseases of infants and children during his or her regular course at the College. The value of the prize is about $260. Only students who have been in attendance at the College for at least two years are eligible.

STUDENT LOANS

Loan funds are provided in a limited amount for the assistance of students, but it is the general policy to grant loans only to students who have satisfactorily completed at least one session of residence at the University. Application is made on a blank which may be obtained from the offices of the Dean or of the Bursar. Applications for the Winter Session should be filed by September 15; for the Spring Session, by January 15.

In memory of John Adams Mahew, Class of 1955, limited funds are available periodically for loans to medical students in emergencies. These were given primarily by classmates and friends and are administered by the Dean.

STUDENT EMPLOYMENT

The Dean's office will assist in obtaining suitable positions for medical students and graduates who are in need of employment. A list of the available positions for medical students is maintained. Because of the heavy schedule of the Medical School it is difficult for medical students to undertake part-time work outside the Medical Center during the academic year and, so far as feasible, other financial arrangements should be made.

GENERAL REGULATIONS

STUDENTS

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved powers of the President, in the dean of each faculty and the director of the work of each administrative board.

HONOR CODE

Academic and intellectual integrity are accepted principles in the medical profession. An Honor Code, created and administered by the student body, is the formal acknowledgement of this understanding at the College of Physicians and Surgeons. Each student is expected to abide by it.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing and not subject to discipline who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the Dean. Students withdrawing are required to notify the Registrar immediately.

The Dean may, for reasons of weight, grant a leave of absence to a student in good standing.

REQUIREMENTS FOR PROMOTION

1. A student may be advanced or readmitted to the second, third, or fourth academic year of the medical course or readmitted to the first year only upon recommendation of the faculty under which he has studied during the preceding year.

2. The Faculty of Medicine reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions of study in this school.

Students are classified for readmission or promotion under the following headings:

I. Recommended for advancement

II. Recommended for readmission to the same class

III. Recommended neither for advancement nor readmission

A. Because of academic failure

B. Because they fall under paragraph 2 of requirements for promotion

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, work unsatisfactory.

REQUIREMENTS FOR DEGREES

The course for the degree of Doctor of Medicine consists of the subjects shown in the Summary of Studies, on pages 25 and 26, all of which are required unless otherwise stated. Elective courses are not counted for credit toward the degree.

Diplomas for the following degrees are issued at Commencement, in October, and in February, upon completion of requirements: Doctor of Medicine, Doctor of Dental Surgery, Master of Science in public health fields, Master of Public Health, Doctor of Public Health, Doctor of Medical Science, and Bachelor of Science in nursing, physical therapy, and occupational therapy. Dates for the filing of applications for all these degrees are given in the Academic Calendar at the beginning of this announcement.

Announcements of the Schools of Dental and Oral Surgery and of Public Health and Administrative Medicine, of Nursing, and of the Courses for Physical and Occupational Therapists outline requirements for the respective degrees.

A student graduating from this medical school is eligible for admission to licensing examinations in all states and territories of the United States, providing he meets requirements for internship in those states requiring hospital experience before licensure. He is also eligible for admission to the examinations of the National Board of Medical Examiners.

GRADUATE MEDICAL EDUCATION

Opportunities for medical training beyond the undergraduate level are offered in Columbia University in two major programs. The graduate program is concerned with the training of specialists by means of hospital residencies. It is presented generally in direct continuity with sound, basic medical education, including a hospital internship which is now regarded as a part of that preparation. The postgraduate program, on the other hand, provides for the continued education of physicians in practice, and is particularly designed to enrich their preparation to meet their responsibilities to patients and the public.

THE GRADUATE PROGRAM

The graduate program includes training opportunities through fellowships at the College of Physicians and Surgeons and residencies in affiliated hospitals. Proper training for specialization includes three major elements. Primarily it provides a sufficiently long clinical experience as a resident in a hospital equipped and staffed to provide graded responsibilities under supervision of experts in the field of medicine selected. In the second place it disciplines the resident in scientific attitudes toward health and disease and enriches his clinical experience with advanced training in those medical sciences concerned largely with the field of his particular interest. Finally it provides, either in the residency experience or in a fellowship status, the opportunity to do basic or clinical research. This in turn may stimulate the type of scientific productivity worthy of recommendation for registration toward the degree of Doctor of Medical Science.

The University confers the Doctor of Medical Science (Med.Sc.D.) degree upon a few physicians who are specially qualified by a university level of training in one of the specialized fields of practice. *Only current residents appointed in one of the affiliated hospitals and Fellows registered at Columbia University are eligible for registration for the degree.* Those with proper qualifications who wish to apply for admission to register for the degree may do so on the recommendation of the executive officer of the department concerned.

The fields of graduate study are:

Anesthesiology
Dermatology
Medicine
Neurology
Neurological surgery
Obstetrics and gynecology
Ophthalmology
Orthopedic surgery
Otolaryngology
Pathology
Pediatrics
Physical medicine
Plastic surgery
Psychiatry
Radiology
Surgery
Urology

THE POSTGRADUATE PROGRAM

A variety of short courses have been organized in hospitals and clinics affiliated with the University. Those for the general practitioner furnish opportunities for him to overcome deficiencies in his earlier training, to get abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention which he can use in his practice, and to learn the indications, limitations, and value of those technical procedures which

require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is restricted to those who may reasonably be regarded as prepared to benefit by the advanced instruction.

Short courses are available at the Margaret Hague Maternity Hospital of the Jersey City Medical Center, Montefiore Hospital, Mount Sinai Hospital, the Hospital for Joint Diseases, Neurological Institute, New York State Psychiatric Institute, Presbyterian Hospital, Tuberculosis Division of Bellevue Hospital, the School of Public Health and Administrative Medicine, and the College of Physicians and Surgeons. No University credit or certificates are granted for the short courses.

Further information regarding graduate and postgraduate training may be obtained by addressing the Dean of the Faculty of Medicine, Columbia University, 630 West 168th Street, New York 32, N.Y.

PLAN OF UNDERGRADUATE INSTRUCTION

The curriculum is arranged with the object of providing the student with the necessary opportunities for acquiring a knowledge of the fundamental sciences in relation to medicine and the techniques of approach in medical problems. Beginning in the first two academic years with a study of the basic sciences, particularly anatomy, physiology, biochemistry, microbiology, pharmacology, and pathology, the student prepares himself for an understanding of the problems to be encountered in his later clinical work. The third and fourth academic years are devoted to mastering the methods of diagnosis and treatment of patients and to acquiring a knowledge of disease patterns, emphasizing in particular the more important fields of medicine, surgery, pediatrics, obstetrics, and psychiatry.

Throughout the entire course an effort is made to correlate the different phases of medical learning by means of "correlative" and "combined" clinics in which the various departments cooperate in the discussion and demonstration of the same and related problems and thus treat the study of medicine as a unit rather than a series of isolated branches of learning. At the same time an attempt is made to individualize instruction and to place responsibility as far as is practical upon the student for his own education. This is accomplished by means of the division of classes into small sections, by conferences, clinical clerkships, and the case method of instruction. It is the policy of the Faculty that the program shall remain flexible, in keeping with the special interests of individual students.

The preparation of the student is designed to enable him to continue his education in the hospital internship, practice of medicine, graduate studies in the specialties, or in other fields of medical endeavor.

SUMMARY OF STUDIES

The Faculty reserves the right to make such changes in the program of studies as experience may prove desirable. These changes may be made at any time.

First Year

REQUIRED COURSES		HOURS
Anatomy 101FS	Microscopic anatomy	158
Anatomy 102FST	Systematic human anatomy	303
Anatomy 103F	Embryology	18
Anatomy 106ST	Neuroanatomy	96
Anatomy 114FFo	Correlative clinics	24
Biochemistry 101Fo	Introductory biochemistry	181
Physiology 101Fo	Human physiology	226
Psychiatry 101FST	Introduction to human behavior	20
Public Health 201	Medical statistics	12
	TOTAL	1,038

Second Year

Anatomy 105FS	Clinical anatomy	20
Medicine 101T	Elementary physical diagnosis	88
Medicine 102S	Elementary clinical pathology	88

REQUIRED COURSES		HOURS
Medicine 103T	Introductory medicine	10
Microbiology 101F	General microbiology	140
Microbiology 105F	Infection, immunity, etc.	52
Neurology 101T	Neurological examination	20
Pathology 101FST	General and special pathology	344
Pathology 102S	Neuropathology	33
Pathology 103FS	Medicine-pathology case study	33
Pharmacology 101ST	General	121
Psychiatry 102S	Psychopathology	10
Public Health 101S	Parasitic diseases	51
Surgery 101S	Introduction to surgery	11
Surgery 102T	Principles of surgery	60
	TOTAL	1,081

Third Year

Dermatology 203–204	34
Medicine 201–202, 203–204, 205–206	447
Neurology 207–208, 209–210	38
Obstetrics and Gynecology 201–202	56
Ophthalmology 201–202, 203–204	42
Orthopedic Surgery 201–202, 203–204	80
Otolaryngology 201–202, 203	40
Pediatrics 201–202, 207–208	208
Psychiatry 203–204	147
Public Health 203–204	76
Radiology 201–202, 206	24
Surgery 201–202, 204–205, 211–212	219
Electives	385
TOTAL	1,796

Fourth Year

Dermatology 205–206	28
Medicine 205–206, 207–208, 209–210, 216, 221–222, 223–224, 225–226	481
Neurology 202	30
Obstetrics and Gynecology 203–204	280
Orthopedic Surgery 205–206	24
Pediatrics 203–204	140
Pharmacology 202	16
Psychiatry 205	15
Public Health 207–208	11
Radiology 203–204	16
Surgery 209–210, 213–214, 217–218, 219–220	292
Urology 201–202	36
Electives	280
TOTAL	1,649

COURSES OF INSTRUCTION

For purposes of instruction the first academic year is divided into four periods; the second into trimesters; the third into quarters; and the fourth into six periods.

The academic year for the first- and second-year classes is approximately nine months in length. The third and fourth years are twelve months in length comprising a summer term, which in the third year is an elective, and the regular academic year of approximately nine months. No additional tuition is charged for the summer term.

Elective courses are arranged so that students may continue, supplement, or vary the work done in the prescribed courses. The students may arrange for elective courses at the beginning of any period and will be held responsible for attendance and the successful passing of examinations. Specially qualified students of the fourth-year class, upon nomination by the head of a department and with the permission of the Committee on Administration, may substitute elective courses or research in that department for the prescribed courses.

All students other than those regularly matriculated for the degree of Doctor of Medicine must secure permission from the instructor in charge before registering for any course.

ANATOMY

Professors: W. M. Copenhaver, S. R. Detwiler (*Executive Officer*), E. T. Engle (*Obstetrics and Gynecology*), F. A. Mettler (*Neurology*)

Associate Professors: F. J. Agate, H. O. Elftman, M. R. Murray (*Surgery*), C. A. Noback, A. E. Severinghaus (*Associate Dean*)

Associate Professor of Dental Anatomy: E. Applebaum (*Dental and Oral Surgery*)

Associate Professor of Neuroanatomy: A. Elwyn

Associate Clinical Professor: E. B. Kaplan

Assistant Professors: M. B. Carpenter, C. A. Ely, C. A. Hovde, D. D. Johnson, M. L. Moss, W. M. Rogers, H. H Shapiro (*Dental and Oral Surgery*)

Associates: E. A. MacDowell, E. A. Manginelli, B. Salzer

Associates in Neurology: L. V. Lyons

Instructors: J. V. Gazzola, H. Gladstone, B. W. Glick, J. K. Littman, S. F. Thomas (*Neurology*)

Assistants: R. C. Drelich (*Dental and Oral Surgery*), H. P. Levy (*Dental and Oral Surgery*), L. E. Sirna (*Dental and Oral Surgery*)

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Anatomy 101FS—Microscopic anatomy. Lectures, conferences, and laboratory. First year. 6 pts. Professors Copenhaver, Engle, Smelser, Johnson, Hovde, and assistants.

Anatomy 102FST—Systematic human anatomy. Lectures, conferences, and laboratory. First year. 12 pts. Professors Agate, Carpenter, Detwiler, Elftman, Ely, Moss, Noback, and assistants.

Anatomy 103F—Embryology. First year. 2 pts. Professors Copenhaver, Detwiler, Ely, Rogers, and Smelser.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 105FS—Clinical anatomy. One hour a week for twenty weeks. Second year. 2 pts. Professor Rogers and members of the clinical staffs.

A course of lectures and demonstrations in which the more important phases of anatomy are reviewed by clinicians and discussed in relation to their application in different fields of clinical work.

Anatomy 106ST—Neuroanatomy. Lectures, demonstrations, and laboratory. First year. 6 pts. Professors Carpenter and Noback, and staff.

Anatomy 114FFo—Correlative clinics in anatomy, biochemistry, and physiology. First year. Professor Perera (*from Medicine*) in charge.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Anatomy 112S—Special senses. Open to second-, third-, and fourth-year medical students. 2 pts. Professors Detwiler and Smelser. *Not given in 1955–1956.*

This course deals primarily with the gross and microscopic anatomy and the connections of the eye and ear with the central nervous system.

SUMMER SESSION 1955

Anatomy s101—Introduction to human anatomy. 6 pts. Professor Elftman and assistant.

Anatomy s107—Histology. 6 pts. Professor Johnson and assistant.

For courses offered under the Faculty of Pure Science consult the announcement of that faculty.

ANESTHESIOLOGY

Professors: V. Apgar, E. M. Papper (*Executive Officer*)

Assistant Professors: M. J. Frumin, J. Henley, D. A. Holaday, J. Kreiselman, L. C. Mark, H. Rackow, H. Schwartz

Associates: J. Bartels, B. R. Fink, E. C. Hanks,[1] F. W. Hehre, Jr.,[1] S. Nagi,[1] E. Salanitre, S. Silverman

Instructors: N. A. Bergman, L. Brand, R. A. Jacobs, M. M. Kritchman, V. Lauderdale, E. C. Nelson, R. W. Patterson[1]

At Mary Imogene Bassett Hospital:

Associate: A. Keats

BIOCHEMISTRY

Professors: E. Chargaff, H. T. Clarke (*Executive Officer*), G. L. Foster, S. Graff, K. Meyer (*Medicine*), E. G. Miller, Jr., D. Rittenberg, D. Shemin, W. M. Sperry, H. B. Waelsch (*Psychiatry*)

Professor of Immunochemistry: M. Heidelberger (*Medicine*)[1]

Associate Professors: Z. Dische (*Ophthalmology*), M. Karshan (*Dental and Oral Surgery*), S. Lieberman (*Obstetrics and Gynecology*), D. B. Sprinson

Assistant Professors: J. A. Behre, M. Engelman, P. Feigelson (*Medicine*), H. B. Gillespie, E. Hirschberg (*Medicine*), T. D. Price (*Urology*), H. S. Simms (*Pathology*), H. J. Strecker (*Psychiatry*), I. B. Wilson (*Neurology*), S. Zamenhof

Associates: G. Y. Gottschall, C. R. Harmison (*Pathology*), I. Mandl (*Microbiology*)

[1] On leave 1955–1956.

Research Associates: I. Danishefsky, L. S. Dietrich (*Surgery*), D. Elson, E. Kuntz (*Pathology*), A. L. Lajtha, M. E. Lombardo (*Urology*), M. London (*Urology*), B. A. Lowy (*Medicine*), H. G. Meltzer (*Psychiatry*), V. Ross, H. Sachs (*Psychiatry*), H. T. Shigeura, I. Sucher, K. K. Tsuboi (*Urology*), B. Weiss (*Psychiatry*)

Research Assistants: E. Borenfreund, P. Hoffman (*Medicine*), M. Sprecher, A. Linker (*Medicine*)

At Goldwater Memorial Hospital:

Professor: F. E. Kendall (*Medicine*)

Research Associate: L. Abell (*Medicine*)

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Biochemistry 101Fo—Introductory biochemistry. Three hours lecture and twelve hours laboratory a week for fourteen weeks. First year. 8 pts. The staff.

Special reference to the animal organism.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Biochemistry 111FFo—Correlative clinics in anatomy, biochemistry, and physiology. First year. Professor Loeb (*from Medicine*) in charge. See *Anatomy 114FFo.*

Biochemistry 211–212—Special methods of biochemistry. Eligibility and hours to be determined on consultation. The staff.

A study and discussion of biochemical methods. Intended to prepare the student for research or for practical application of the subject of biochemistry.

Biochemistry 215–216—Research in biochemistry. Eligibility to be determined on consultation. The staff.

Biochemistry 220—Isotope technique in biochemistry. One hour. 2 pts. Spring Session. Professor Rittenberg.

A general survey of the experimental methods employed in the application of the isotope technique to biochemical problems. The topics discussed will include a survey of nuclear properties, the preparation of isotopically labeled compounds, and instruments employed for the analysis of radioactive and stable isotopes.

Admission only with permission of the department.

Biochemistry 223—Aspects of cell chemistry. Two hours lecture, with conferences. 3 pts. Winter Session. Professor Chargaff. *Not given in 1955–1956.*

Isolation of cellular components, chemistry of nucleoproteins, lipoproteins and other conjugated proteins, cell-bound enzymes, cell division, and related topics.

Admission only with permission of the department.

Biochemistry 226—Chemistry of intermediary metabolism. One hour. 2 pts. Spring Session. Professor Shemin.

Recent developments in the knowledge of chemical processes in living systems.

Admission only with permission of the department.

Biochemistry 301–302—Seminar. No credit. Open to all students in the University.

The members of the teaching staff, candidates for the degree of Doctor of Philosophy, and all other investigators in the department meet weekly to discuss results of recent researches in biochemistry.

For courses offered under the Faculty of Pure Science consult the Pure Science announcement.

SCHOOL OF DENTAL AND ORAL SURGERY

The Announcement of the School of Dental and Oral Surgery, describing the content of the course leading to a Doctor of Dental Surgery (D.D.S.) degree, and the Announcement of Postgraduate Courses for Dentists may be obtained from the Office of the Associate Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

DERMATOLOGY

Professor: C. T. Nelson (*Executive Officer*)
Clinical Professors: G. C. Andrews, P. Gross
Associate Professor: R. W. Benham
Associate Clinical Professors: G. E. Machacek, J. L. Miller
Assistant Professor of Clinical Dermatology: B. M. Kesten
Assistant Clinical Professors: L. P. Barker, D. Moon-Adams, T. Rosenthal
Associates: H. O. Curth, W. Curth
Research Associates: H. Blank, J. H. Hill, M. Silva-Santiago
Instructors: B. J. Chester, A. N. Domonkos, G. W. Hambrick, Jr., F. P. Lowenfish, R. M. Montgomery, C. F. Post, J. E. Ridgway, L. Schweich, M. H. Slatkin, M. B. Sloane
Assistants: E. J. Gillespie, E. W. Jewell, E. W. Wilson

At Mt. Sinai Hospital:
Associate Clinical Professor: S. M. Peck

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Dermatology 203–204—Dermatology and syphilology. Two introductory lectures and one symposium on common dermatoses to the class and ten demonstration sessions of three hours each to sections. Third year. Professors Barker and Nelson, and associates.
At Vanderbilt Clinic.

Dermatology 205–206—Dermatology and syphilology. Seven hours a week for one month. Fourth year. Professors Miller and Nelson, Dr. Chester, and associates.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Dermatology 101T—Medical mycology. Six hours per week for twelve weeks. 3 pts. Professor Benham.
Hours to be arranged.

Dermatology 207–208—Outpatient clinical clerkships. Five afternoons a week for one month. Third and fourth years. Members of the staff.

Dermatology 219–220—Histopathology of the skin. Professor Machacek.
Hours to be arranged.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

MEDICINE

Professors: F. M. Hanger, Jr., R. F. Loeb (*Executive Officer*)
Professor of Immunochemistry: M. Heidelberger[1]
Professor of Biochemistry: K. Meyer
Professor of Clinical Medicine: D. W. Atchley
Clinical Professors: F. R. Bailey, A. L. Barach, F. Dieuaide
Clinical Professor of Psychiatry: G. E. Daniels
Associate Professors: S. E. Bradley, A. Gellhorn (*Delafield Hospital*), Y. Kneeland, Jr., G. A. Perera, C. Ragan, J. V. Taggart
Associate Professors of Clinical Medicine: C. A. Flood, J. W. Jailer (*Obstetrics and Gynecology*), J. C. Turner, K. B. Turner, S. C. Werner
Associate Clinical Professors: R. H. Boots, S. W. Lambert,[1] B. J. Sanger, W. B. Sherman, H. Southworth
Assistant Professors: J. Davidson, A. P. Fishman, A. I. Knowlton, J. E. McCormack, I. H. Schienberg (*Psychiatry*), W. H. Sheldon, R. Wégria
Assistant Professors of Biochemistry: P. Feigelson, E. Hirschberg
Assistant Professor of Clinical Medicine: A. R. Lamb, Jr.
Assistant Professor of Microbiology: C. Howe
Assistant Clinical Professors: H. G. Bruenn, G. A. Carden, S. C. Fisk, W. A. Gardner,[1] M. Goldenberg, P. C. Lloyd, T. B. Russell, P. B. Sheldon, H. B. Wilcox, Jr.
Associates: H. Aranow, S. W. Cosgriff, L. H. Cotter, R. J. Cross, C. D. Dunham, D. L. Larson, M. J. Lepore, E. N. Loeb, R. B. McKittrick, H. E. Marks, G. W. Melcher, I. Mufson, E. F. Osserman, K. L. Pines, C. H. Plimpton, F. A. Stevens
Associate in Microbiology: C. Morgan
Research Associates: H. D. Grossfeld, L. L. Reiner
Research Associates in Biochemistry: B. A. Lowy, O. J. Plescia
Instructors: J. M. Baldwin, Jr., G. J. Beck, G. P. Bradley, D. N. Brown, H. P. Colmore, J. Corwin (*Obstetrics and Gynecology*), C. J. D'Alton, F. E. Demartini, R. B. Duane, C. W. Frank, A. W. Grokoest, G. C. Hennig, H. H. Holmes, G. S. Jones, R. A. Kritzler, J. H. Laragh, E. Leifer, G. H. McCormack, Jr., P. A. Marks, J. A. L. Mathers, R. Muller, F. M. Pruyn, H. M. Ranney, F. H. Shillito, T. L. Tyson, C. R. Wise, P. Wolkonskey
Assistants: S. F. Alexander, C. Alston, H. M. Anderson, A. T. Baker, E. Bauman, J. T. Beaty, A. E. Brewer, R. M. Carey, N. J. Conan, Jr., C. Cooke, J. A. Coss, Jr., J. Van B. Dean, P. M. Dean, H. W. Doyle, S. Dvoskin, D. Estes, W. H. Franklin, C. Gerbi, A. Gibson, C. R. Hulse, G. A. Hyman, K. A. McClane, H. W. Neuberg, R. Noble, M. Rosenschein, Jr., W. H. Russell, D. H. Smith, R. J. Stock, C. J. Tyson, Jr., C. A. Vicens, J. A. Wood
Research Assistants: E. S. Koelle, S. G. Traube, G. Vanderhoff, H. Wang
Research Assistants in Biochemistry: P. Hoffman, A. Linker

At Bellevue Hospital:

Professors: A. F. Cournand, D. W. Richards
Clinical Professor: M. Dinnerstein
Associate Professors: J. M. Jones, J. H. McClement
Associate Clinical Professor: K. J. Thomson
Assistant Professors of Clinical Medicine: M. I. Ferrer, R. Harvey
Assistant Clinical Professors: C. R. Gross, I. Rappaport, H. McL. Riggins

[1] On leave 1955–56.

Associates: L. H. Hellstrom, H. M. Hicks, A. Hoff, J. Leland, F. D. Rossomondo, W. H. Stearns, P. Wermer, C. H. Whitney
Instructors: O. S. Baum, M. E. Campbell, H. H. Coppersmith, B. B. Eichler, W. L. Evans, H. Long, B. B. Garthwaite, B. J. Handler, J. V. Lichtenstein, A. M. Tunick
Assistants: E. Alpert, R. F. Alsop, L. F. Baum, H. S. Collins, L. L. Davis, W. W. Field, S. N. Heller, F. S. Lansdown, M. Lewisohn, H. Perrone, H. G. Schaffeld, M. B. Smith, L. Warshaw, C. S. Yongue

At Roosevelt Hospital:

Associate Clinical Professors: A. J. Antenucci, J. M. Freston
Assistant Clinical Professors: N. S. Brown, G. Taylor
Associate: W. H. Button, Jr.
Assistant: A. C. Santy

At Goldwater Memorial Hospital:

Professor: D. Seegal
Professor of Biochemistry: F. E. Kendall
Associate Professor of Pathology: M. Bevans
Associate Clinical Professor: A. J. Patek, Jr.
Assistant Professors: Q. B. Deming, A. R. Wertheim
Assistant Professor of Biochemistry: E. H. Mosbach
Assistant Clinical Professors: H. Bickerman, A. Steiner
Associates: H. Colcher, H. Lax
Research Associate in Biochemistry: L. L. Abell
Instructor: A. W. Feinberg
Assistants: B. M. Cohen, J. A. Epstein, M. E. Hodes, D. Rudman, L. A. Scarrone, E. Schmatolla, S. Torosdag
Research Assistant: F. Drimmer

At Mt. Sinai Hospital:

Professor: A. B. Gutman
Associate Clinical Professor: A. M. Master
Assistant Clinical Professors: D. Adlersberg, C. K. Friedberg, W. M. Hitzig, C. B. Rabin, S. Silver, L. R. Wasserman, A. Winkelstein
Instructor: T. F. Yu
Lecturers: M. L. Brown, S. Dack, I. E. Gerber, H. L. Jaffe, F. H. King, H. Pollack, F. D. Zeman

At Montefiore Hospital:

Clinical Professors: R. G. Bloch, L. Leiter
Associate Clinical Professor: S. P. Schwartz
Assistant Clinical Professors: S. Biloon, H. Gross, K. Harpuder, A. Jezer, S. Melamed, J. B. Schwedel, L. E. Siltzbach, B. Weingarten
Instructor: I. D. Stein
Lecturers: J. Ballinger, W. Chester, M. Dolgin, A. S. Dooneief, C. D. Enselberg, M. Friedenson, E. Goldberger, J. Harkavy, B. E. Jacobson, D. Laszlo, H. I. Lippman, H. Rifkin, M. Rodstein, I. L. Rubin, B. Scholder, V. Silvestri, L. Spiegel, L. Tarr, A. Weiss, R. E. Weston, D. Young

At Mary Imogene Bassett Hospital:

Clinical Professor: J. Bordley III
Associate Clinical Professor: J. W. Ferrebee
Assistant Clinical Professor: F. F. Harrison
Associate: E. D. Thomas
Instructors: J. C. Mithoefer, W. H. Mook

At St. Luke's Hospital:

Associate Clinical Professor: G. J. Coffin
Assistant Clinical Professors: W. B. Farnum, A. C. Herring, O. R. Jones
Associate: W. J. Pyles
Instructors: C. G. Adsit, A. L. L. Bell, Jr., J. G. Hilton, J. H. Keating, Jr., R. P. Keating, F. J. Schilling

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Medicine 101T—Elementary physical diagnosis. Eight hours a week for ten weeks. Second year. No pts. Professor Kneeland and associates.

Medicine 102S—Elementary clinical pathology. Eight hours a week for eleven weeks. Second year. 2 pts. Professor J. C. Turner and associates.

This course consists of instruction in the technique of blood-counting, etc., and systematic instruction in the various chemical and microscopical methods.

Medicine 103T—Introductory medicine. One hour a week for ten weeks. Second year. No pts. Professor Atchley.

Medicine 201–202—Ward clinical clerkship in medicine. Eleven weeks. Third year. Professor Atchley in charge.

Medicine 203–204—Medical lectures. One hour a week for twenty-eight weeks. Third year. Professor K. B. Turner and associates.

A series of lectures or clinics devoted to important problems of internal medicine. Approximately half of these lectures are assigned to outstanding students of the fourth-year class for presentation to third-year students with a member of the faculty orienting discussion.

Medicine 205–206—Combined clinics. One and a half hours a week for thirty weeks. Third and fourth years.

Medicine 207–208—Outpatient clinical clerkships (group clinic). Combined with *Surgery 209–210.* Two months. Fourth year. Professor Lamb in charge.

Medicine 209–210—Medical therapeutics and applied pharmacology. Sixteen lectures. Fourth year. Third-year elective. Professor Southworth in charge, Professor Gilman (*from Pharmacology*).

Practical management, including home care, of major medical problems with a review of the pertinent pharmacology. See *Pharmacology 202.*

Medicine 216—Forensic medicine and medical jurisprudence. Sixteen lectures. Fourth year. Dr. Vance and Mr. Werne (*both from Public Health*).

Medicine 221–222—Clinical clerkships on the wards at Bellevue Hospital. Fourth year. Professor Richards and associates.

Medicine 223–224—Clinical clerkships in chronic diseases of the chest at Bellevue Hospital. Fourth year. Professor McClement and associates.

Medicine 225–226—Medical and surgical conferences at Bellevue Hospital. Fourth year. Professors Richards and Lewis (*from Surgery*) in charge.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Medicine 227–228—Special clinics at Presbyterian Hospital. Third and fourth years.

Morning Clinics:

A. *Diabetes.* M. W. F. Floor 2. Limited to six students each morning. Professor Sanger and Dr. Marks.
B. *Thyroid.* F. Floor 10. Limited to six students. Professor Werner and Dr. Aranow.
C. *Nephritis and hypertension.* Tu. Floor 2. Limited to four students. Professor Bradley.

Afternoon Clinics:

D. *Allergy.* M. Tu. Th. F. Floor 10. Limited to two students each morning. Professor Sherman.
E. *Cardiac.* F. Floor 10. Professor K. B. Turner.
F. *Arthritis.* W. F. Floor 10. Limited to four students daily. Professor Ragan.
G. *Combined endocrine.* Tu. Floor 3. Limited to six students. Professor Werner and associates.
H. *Gastrointestinal.* M. W. F. Floor 3. Limited to two students daily. Professor Flood.

Students desiring elective work in these clinics should make application one week before the beginning of the quarter to the secretary of the Department of Medicine. The third-year clinical clerkship in medicine is prerequisite for these elective courses. Assignments are announced three days before the beginning of the quarter.

Medicine 229–230—Differential diagnosis. Fourth year. Professor Hanger.

In this course abstracts of histories are distributed before the exercises and the diagnosis is handed to the instructor. The diagnosis is known neither to student nor instructor. There is a discussion of the diagnosis and pathological material is presented.

Medicine 231–232—Research in medicine. Under the direction of Professor Loeb.

This course is open to qualified workers, who may pursue research in the clinical laboratories of the Department of Medicine.

Medicine 235–236—Elective clinical clerkship. Two months. Fourth year.

The student elects a combined medicine and surgery clerkship in one of the following hospitals: Roosevelt, St. Luke's, Mary Imogene Bassett, or Goldwater (straight medical clerkship).

ELECTIVE COURSES IN MEDICINE

Medicine 237—Elective course in cardiorespiratory physiology. Fifteen lectures, all classes. Professors Cournand and Richards.

Medicine 239—Elective course in clinical biochemistry (Public Health Research Institute of the City of New York). Alternate years. Fifteen lectures, all classes. Professor Taggart.

MICROBIOLOGY

Professors: E. A. Kabat (*Neurology*), H. M. Rose (*Executive Officer*)
Professor of Bacteriology: C. W. Jungeblut
Associate Professors: S. P. Halbert (*Ophthalmology*), D. H. Moore, B. C. Seegal
Assistant Professors: B. F. Erlanger, C. Howe (*Medicine*), N. Kopeloff (*Psychiatry*), J. D. MacLennan (*Surgery*), H. Seneca (*Urology*)
Associates: S. M. Beiser, S. A. Ellison, M. Holden, E. Y. Lasfargues, D. Locatcher-Khorazo (*Ophthalmology*), C. Morgan (*Medicine*), S. W. Tannenbaum
Associate in Biochemistry: I. Mandl
Research Associates: M. E. Carsten (*Neurology*), I. M. Mountain
Instructor: A. W. Knox
Research Assistants: M. H. G. Friedlaender

At Mt. Sinai Hospital:
Professor: G. Shwartzman

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Microbiology 101F—General medical microbiology and immunology. Thirteen hours laboratory, conferences, and demonstrations. Second year. 6 pts. Members of the staff.

This course consists of informal discussions, problems, demonstrations, and laboratory work.

Microbiology 105F—The principles of microbiology, immunology, epidemiology, and the specific diagnosis and therapy of infectious diseases. Five hours lecture and demonstrations. Second year. 3 pts. Members of the staff.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Microbiology 118T—Medical mycology. Five hours per week for twelve weeks. 3 pts. Professor Benham (*from Dermatology*). Hours to be arranged.

Microbiology 251FST—Research in problems of immunology and immunochemistry. Laboratory. 2 to 6 pts. each trimester. Under the direction of the staff. Hours to be arranged.

For courses offered under the Faculty of Pure Science consult the Pure Science announcement.

NEUROLOGICAL SURGERY

Professor: J. L. Pool (*Executive Officer*)
Professor of Clinical Neurological Surgery: J. E. Scarff
Associate Professor of Clinical Neurological Surgery: L. A. Mount
Associate Clinical Professor: F. Cramer
Assistant Professor: J. B. Campbell
Assistant Professors of Clinical Neurological Surgery: J. Ransohoff, E. B. Schlesinger
Associate: T. J. Bridges
Instructor: J. W. Correll
Assistant: A. Y. Gerol

NEUROLOGY

Professor: H. H. Merritt (*Executive Officer*), D. Nachmansohn
Professor of Neuropathology: A. Wolf
Professor of Anatomy: F. A. Mettler
Professor of Microbiology: E. A. Kabat
Clinical Professor: L. B. Chaney
Associate Professors: S. Carter, H. Grundfest, P. F. A. Hoefer
Associate Professor of Clinical Neurology: C. T. Vicale
Associate Professor of Neuropathology: D. Cowen
Associate Clinical Professor: I. J. Sands
Assistant Professors: W. F. Caveness, E. S. Goldensohn, D. Sciarra
Assistant Professor of Biochemistry: I. B. Wilson
Assistant Professors of Clinical Neurology: E. Herz, R. J. Masselink, L. A. Salmon, M. D. Yahr.
Assistant Professor of Neuropathology: I. H. Feigin
Assistant Clinical Professors: A. M. Frantz, C. C. Hare, G. H. Hyslop, J. M. McKinney, M. Silbermann, H. G. Weitzen
Associates: W. Amols, F. Ansanelli, K. Constable, J. P. Davis, S. M. Dillenberg, L. J. Doshay, M. Frocht, A. Gallinek, L. V. Lyons (*Anatomy*), J. Moldaver, R. Pietri, F. T. Zimmerman
Associate in Neuropathology: S. M. Aronson
Research Associates: M. Eisenberg, S. Ginsburg, A. Weber
Research Associate in Microbiology: M. E. Carsten
Instructors: J. F. Culleton, Z. DeFries, R. Fishman, J. L. Greene, W. Hochstetter, S. Lesse, C. G. McKendree, A. A. Rosner
Instructor in Anatomy: S. F. Thomas
Assistants: B. August, F. P. Iorio, T. R. Johns, H. Potter, L. Scheinberg, W. Sibley
Research Assistants: M. Altamirano, B. B. Burgemeister, F. L. Orioli, L. Zablow

At Montefiore Hospital:

Associate Professor of Clinical Neurology: Tiffany Lawyer
Associate Clinical Professor: A. P. Friedman
Assistant Clinical Professors: S. Elpern, M. J. Madonick
Associate: F. D. Stern
Instructors: S. Maringer, R. B. Miller, G. F. Osler, L. P. Rowland, J. H. Scharf, K. Strully, M. J. Tissenbaum
Assistants: K. M. Gang, R. J. Greenberg, A. M. Schwartz

At Mt. Sinai Hospital:

Assistant Clinical Professor: R. M. Brickner
Lecturer: H. Strauss

At Creedmore State Hospital:

Assistant Clinical Professor of Psychiatry: J. R. Whittier

At Rockland State Hospital:

Research Associate in Psychiatry: N. Kline
Research Assistants in Psychiatry: Y. Taketomo, P. B. Vestergaard

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Neurology 101T—Introduction to clinical neurology: Neurological examination, anatomical, physiological, and pathological correlations. Lectures and demonstrations two hours a week for ten weeks. Second year. Professors Merritt and Vicale.

Neurology 202—Clinical lectures and demonstrations in neurology. One and a half hours a week for twenty weeks. Fourth year. Professors Merritt, Pool, and Vicale.

Neurology 207–208—Neurology: examination of the patient and interpretation of findings. Fifteen hours a week for two weeks. Third year. Members of staffs.
At Neurological Institute and Montefiore Hospital.

Neurology 209–210—Neurology: the diseases of the nervous system. Lectures and demonstrations two hours a week for seven weeks. Third year. Professor Merritt and staff.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Neurology 241–242—Ward clinical clerkships. Five mornings a week, 9–12; five afternoons a week, 2–5; for eleven weeks. Third year. Professor Merritt and staff.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

NURSING

See the Announcement of the Department of Nursing.

OBSTETRICS AND GYNECOLOGY

Professor: H. C. Taylor (*Executive Officer*)
Professor of Clinical Obstetrics and Gynecology: D. A. D'Esopo
Professor of Anatomy: E. T. Engle
Clinical Professors: E. E. Bunzel, V. C. Damon
Associate Professor of Biochemistry: S. Lieberman
Associate Professors of Clinical Obstetrics and Gynecology: S. M. Bysshe, S. B. Gusberg, C. M. Steer
Associate Professor of Clinical Medicine: J. W. Jailer
Assistant Professor: A. A. Plentl
Assistant Professors of Clinical Obstetrics and Gynecology: W. V. Cavanagh, C. P. O'Connell, L. B. Shettles, A. J. B. Tillman
Assistant Clinical Professors: J. R. Montgomery, E. W. Munnell
Associates: H. C. Frick, J. B. Rearden, H. Speert
Research Associates: S. Bader, H. de Roetth, M. E. Long, L. L. Phillips, D.V.N. Reddy, S. G. Waelsch
Instructors: A. N. Fenton, D. J. Grandin, R. E. Hall, M. D. Laird, D. B. Moore, A. L. S. Southam, H. M. M. Tovell
Instructor in Medicine: J. Corwin
Instructor in Psychiatry: L. Gidro-Frank
Assistant: T. J. Parks
Research Assistants: M. T. Bradshaw, J. P. Rosselet, S. Solomon

At Mary Imogene Bassett Hospital:

Associate Clinical Professor: O. J. Severus

At Margaret Hague Maternity Hospital:

Assistant Clinical Professors: J. N. Connell, R. A. Cosgrove, E. G. Waters

At Mt. Sinai Hospital:

Clinical Professor: A. F. Guttmacher
Clinical Professor of Gynecology: M. A. Goldberger

At Woman's Hospital:

Clinical Professor: A. H. Aldridge
Assistant Clinical Professor: R. A. Hurd

At Roosevelt Hospital:

Clinical Professor of Gynecology: T. C. Peightal

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Obstetrics and Gynecology 201–202—Theory and practice of obstetrics and gynecology. Fifty-six hours of lectures and demonstrations. Third year.

This course consists of lectures supplemented by demonstrations. The subject matter includes: anatomy and physiology of the pelvic organs, pregnancy and the mechanism of normal labor, the complications of diseases associated with pregnancy; etiology, pathology, symptomatology, and diagnosis of gynecological conditions.

Obstetrics and Gynecology 203–204—Fourth year: practical work in obstetrics and gynecology.

The practical work in this obstetrics and gynecology class is divided into six sections, each section receiving eight and one-half weeks of instruction. During this period, each section is divided into three groups:

1. *Obstetrics at Sloane Hospital for Women.* Day and night duty, during which time lodging is furnished by the hospital. Under the direction of the attending staff of the hospital, ward rounds, quizzes, manikin demonstrations, and actual delivery of cases are conducted.
2. *Obstetrics and Gynecology at Sloane Section of Vanderbilt Clinic.* Prenatal and postnatal clinics. Pre-operative and postoperative care of gynecological cases plus instruction in gynecological diagnosis.
3. *Gynecological Service at Sloane Hospital for Women.* Students act as clinical clerks in the wards of the hospital and follow operative and therapeutic care of patients.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

OPHTHALMOLOGY

Professor: J. H. Dunnington (*Executive Officer*), L. von Sallmann
Professor of Anatomy: G. K. Smelser
Professor of Clinical Ophthalmology: G. M. Bruce
Clinical Professors: A. B. Reese, M. C. Wheeler
Associate Professor of Biochemistry: Z. Dische
Associate Professor of Microbiology: S. P. Halbert
Associate Professors of Clinical Ophthalmology: J. P. Macnie, R. L. Pfeiffer (*Radiology*)
Associate Clinical Professors: W. S. Knighton, C. A. Perera
Assistant Clinical Professor: R. N. Berke

Associates: H. D. H. Brown, F. D. Carroll, G. Clark, J. V. Flack, G. R. Merriam, F. Payne, E. F. Regan, J. A. C. Wadsworth
Associate in Microbiology: D. Locatcher-Khorazo
Research Associates: O. Lowenstein, G. Rand
Instructors: C. G. Barer, E. G. Bethke, R. M. Day, P. Knapp, V. Ozanics, M. C. Rittler, D. E. Tinkess
Assistants: R. C. Collins, A. de Roetth, Jr., A. Forrest, I. S. Jones
Consultant: H. Martin

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Ophthalmology 201–202—Practical instruction in ophthalmology. Fifteen hours a week for two weeks. Third year.
At Vanderbilt Clinic and Institute of Ophthalmology.

Ophthalmology 203–204—Clinical lectures on the diseases of the eye. Twelve one-hour lectures. Third year.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

ORTHOPEDIC SURGERY

Professor: A. DeF. Smith (*Executive Officer*)
Professors of Clinical Orthopedic Surgery: H. Hallock, H. L. McLaughlin, F. E. Stinchfield
Clinical Professor: L. A. Lantzounis
Associate Professor of Clinical Orthopedic Surgery: F. M. Smith
Assistant Professors of Clinical Orthopedic Surgery: S. R. Gaston, M. B. Watkins
Assistant Clinical Professors: E. C. Bragg, W. H. von Lackum
Instructors: G. B. Ambrose, C. A. L. Bassett, R. E. Carroll, F. S. Craig, A. Garcia, D. K. McElroy, C. S. Neer II, C. T. Ryder
Research Assistant: P. J. Goettler

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Orthopedic Surgery 201–202—Lectures on orthopedic surgery. One hour a week for ten weeks. Third year. Professor Smith.

Orthopedic Surgery 203–204—Practical instruction in orthopedic surgery, including fractures and dislocations. Two and one half weeks as a part of *Surgery 204–205*. Third year. Professors Smith and McLaughlin, and staff.
Thirty hours of seminars. Thirty hours of practical instruction in clinics and wards.

Orthopedic Surgery 205–206—Practical instruction in orthopedic surgery, including fractures and dislocations. Twenty-four hours. Fourth year. Professors Smith and McLaughlin, and staff.
Fourteen hours of seminars. Ten hours of practical instruction in clinics and wards.

The Department of Orthopedic Surgery participates in the correlative clinics in the first year, with a discussion of fractures, and also presents a series of lectures in connection with *Surgery 102T* and *Anatomy 105FS* in the second year.

OTOLARYNGOLOGY

Professor: E. P. Fowler, Jr. (*Executive Officer*)
Clinical Professors: F. Altmann, D. C. Baker, Jr., DeG. Woodman
Associate Professors of Clinical Otolaryngology: G. V. Browne, J. Waltner
Assistant Clinical Professor: H. S. Friedman
Associates: E. B. Bilchick, B. Marquit
Instructors: M. Basek, S. R. Daly, R. M. Hui, P. Lindenberg, P. D. Westerhoff
Lecturers: J. Eisenson, D. M. Markle

At Mt. Sinai Hospital:
Clinical Professor: J. L. Goldman
Associate Clinical Professor: I. B. Goldman

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Otolaryngology 201–202—Practical instruction in the diseases of the ear, nose, and throat. Ten three-hour sessions. Third year. Professors Altmann, Waltner, and Woodman, Dr. Bilchick, and staff.
At Vanderbilt Clinic.

Otolaryngology 203—Lectures in otolaryngology. A total of ten hours. Third year. Professors Altmann, Baker, Fowler, Woodman, and staff.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Otolaryngology 225–226—Research in otolaryngology. Credit to be arranged. Hours to be arranged.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

PATHOLOGY

Professor: H. P. Smith (*Executive Officer*)
Professor of Neuropathology: A. Wolf
Associate Professors: D. H. Andersen (*Pediatrics*), R. W. Coon, C. Z. Garber, E. H. Sproul, W. B. Stewart
Associate Professor of Neuropathology: D. Cowen
Associate Professor of Oral Pathology: L. Cahn (*Dental and Oral Surgery*)
Assistant Professors: G. Fine, D. M. Spain, T. F. Zucker
Assistant Professor of Biochemistry: H. S. Simms
Assistant Professors of Neuropathology: I. H. Feigin, L. Roizin (*Psychiatry*)
Assistant Professor of Oral Pathology: H. A. Bartels (*Dental and Oral Surgery*)
Associate: B. N. Berg
Associate in Biochemistry: C. R. Harmison
Associates in Neuropathology: S. M. Aronson, M. Kaufman
Research Associates: H. Kaunitz, L. Zucker
Research Associate in Biochemistry: E. Kuntz
Instructor: D. W. Benninghoff, W. A. Blanc

Instructors in Neuropathology: L. Allen, L. M. Geller
Instructor in Oral Pathology: M. Lunin
Assistants: D. N. Crozier, E. J. Feeley, K. Halloran, D. A. Senhauser
Lecturer in Medical Illustrating: A. Feinberg

At Bellevue Hospital:
Associate Professor: M. Kuschner

At Goldwater Memorial Hospital:
Associate Professor: M. Bevans (*Medicine*)

At Montefiore Hospital:
Professor: H. M. Zimmerman
Instructor: J. I. Berkman

At Mt. Sinai Hospital:
Associate Professor: S. Otani
Lecturer: A. I. Bernheim

At Roosevelt Hospital:
Assistant Professors: W. W. Brandes, B. Kalfayan

At St. Luke's Hospital:
Assistant Professor: C. F. Begg

At White Plains Hospital:
Associate Professor: H. D. Kesten

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Pathology 101FST—General and special pathology. Lectures and laboratory. Second year. 14 pts. Professors Coon, Smith, and Stewart, and staff.

This course consists of a study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations. The course includes attendance at autopsies and the study of gross material with discussion of clinical histories one afternoon a week.

Pathology 102S—Neuropathology. Lectures and laboratory. Three hours a week for ten weeks. Second year. Professor Cowen and Wolf, and staff.

Pathology 103FS—Medicine-pathology case study. One hour a week, first and second trimesters. Second year. Members of the Departments of Medicine and Pathology.

This course consists of presentation of patients illustrating diseases studied in *Pathology 101FST* with a discussion of the etiology, lesions, and clinical findings.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Pathology 251–252—Research in pathology. Credit to be arranged.
Hours to be arranged.

Pathology 253–254—Research in chemical pathology. Credit to be arranged. Under the direction of Professor Zucker.
Hours to be arranged.

For additional courses see the Announcement of the Faculty of Pure Science.

PEDIATRICS

Professor: R. McIntosh (*Executive Officer*)
Associate Professors: H. E. Alexander, C. M. Riley
Associate Professor of Pathology: D. H. Andersen
Associate Clinical Professors: J. T. Howell, C. L. Wood
Assistant Professors: P. A. di Sant' Agnese, R. C. Harris
Assistant Clinical Professors: H. S. Altman, J. M. Brush, D. S. Damrosch, R. E. Moloshok, J. A. Wolff
Assistant Professor of Clinical Pediatrics: W. A. Silverman
Associates: W. A. Bauman, R. W. Culbert, M. Singer
Research Associate: K. Sprunt
Instructors: J. B. Ahouse, R. G. Ames, H. Anfanger, L. A. Boker, R. A. Davis, M. M. Grumbach, W. R. Kessler, J. H. Maroney, R. M. Mickey, D. R. Reed, M. R. Richards, M. H. Samuels, W. R. Smith, P. S. Strong, F. H. von Hofe, D. A. Wilcox, A. G. Wilson, P. E. Wilson[1]
Assistants: A. F. Ackerman, B. C. Berliner, S. Blatman, A. Blum, Jr., L. J. Cassard, J. A. Costa, R. U. Donovan, L. G. M. Fox, O. L. Frick, B. German, D. C. Hackett, W. E. Homan, P. Hudson, M. H. Jacobs, R. E. Jennings, J. E. Kalbacher, A. A. Macdonald, D. J. Melia, K. M. Metcalf, W. L. Mitchell, R. C. Richards, A. P. Rosen, W. H. Smith, D. Stiles, V. A. Strong, E. Ufford, R. West, R. C. Wheeler
Research Assistants: P. H. Boyer, G. Leidy

At Mary Imogene Bassett Hospital:
Associate Clinical Professor: T. C. Goodwin
Instructor: J. H. Cannon

At Mt. Sinai Hospital:
Clinical Professor: H. L. Hodes
Associate Clinical Professor: S. Karelitz
Instructors: S. Blumenthal, A. L. Florman, D. Gribetz, A. Y. Sweet

At Willard Parker Hospital:
Instructors: J. Goldstein, J. F. Landon, M. Lenarsky

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Pediatrics 201–202—Introduction to pediatrics. Five and a half weeks. Third year. Professor Alexander and staff.

At Babies Hospital and Vanderbilt Clinic.

Mornings are devoted to conferences with various members of the Pediatric Staff on special topics and to the presentation and discussion of cases selected from the wards of Babies Hospital. The students work in the general Outpatient Clinic on three afternoons a week, and on one morning they are assigned to the Well Baby Clinic; once a week they are assigned in rotation to the Pediatric Service of Mount Sinai Hospital.

Pediatrics 203–204—Clinical clerkship in pediatrics. One month. Fourth year. Professor Riley and staff.

At Babies Hospital.

Student and hospital resident work closely as a team in the care of patients. The students take the history of each case and perform physical examinations. Opportunity is given for practice in the simpler diagnostic

[1] On leave 1955–1956.

and therapeutic procedures customary on pediatric wards. In addition to regular ward rounds there are conferences on special topics and seminars on pediatric pathology with Professor Andersen and staff. On two afternoons a week the students are assigned to the Outpatient Clinic.

Pediatrics 207–208—Bedside instruction in the contagious diseases of children. Six two-hour sessions. Third year. Drs. Goldstein, Landon, and Lenarsky.

At Willard Parker Hospital.

PHARMACOLOGY

Professors: H. B. van Dyke (*Executive Officer*), A. Gilman
Assistant Professor: H. J. Bartelstone
Associates: P. Brazeau, F. G. Hofmann

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Pharmacology 101ST—General and special pharmacology. One hour lecture or conference, second trimester; four hours lecture or conference and six hours laboratory, third trimester. Second year. 6 pts. The staff.

Pharmacology 202—Medical therapeutics and applied pharmacology. One conference a week for sixteen weeks. Fourth year. Third-year elective. Professors Gilman and Southworth (*from Medicine*).

See *Medicine 209–210.*

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Pharmacology 201—Special methods in pharmacology. Hours and eligibility to be determined on consultation. The staff.

A series of conferences and advanced laboratory problems designed to prepare the student for research in pharmacology.

Pharmacology 229–230—Research in pharmacology. Eligibility to be determined after consultation. Hours and credits to be arranged. The staff.

Pharmacology 301—Seminar in pharmacology. No credit.

For advanced courses see the Announcement of the Faculty of Pure Science.

PHYSICAL MEDICINE AND REHABILITATION

Professor: R. C. Darling (*Executive Officer*)
Professor of Physical Medicine: W. B. Snow
Associate Professor of Rehabilitation Medicine: E. E. Gordon
Assistant Clinical Professors: A. D. Gurewitsch, M. Hoberman
Instructors: C. L. DeVictoria, S. Weber
Research Assistant: M. J. Lota
Assistant Professor and Director of Training for Physical Therapists: M. E. Callahan
Assistant Professor and Director of Training for Occupational Therapists: M. L. Franciscus
Instructor and Associate Director of Training for Physical Therapists: G. L. Jameson

Instructor and Associate Director of Training for Occupational Therapists: V. T. Kilburn

Associate in Physical Therapy: G. B. Finnerty

Associate in Occupational Theapy: E. Brokaw

Instructors in Physical Therapy: M. S. Cover, E. Hansen, H. S. Svirsky, B. Talmud

Instructors in Occupational Therapy: M. Abbott, I. P. Robinault, T. L. Wellerson, H. P. White

Assistant in Occupational Therapy: N. D. Berryman

Research Assistant in Physical Therapy: H. Vanderwalde

At Mt. Sinai Hospital:

Assistant Clinical Professor: W. Bierman

See Announcement of Courses for Physical Therapists and Occupational Therapists.

PHYSIOLOGY

Professors: M. I. Gregersen (*Executive Officer*), J. L. Nickerson, W. S. Root, S. C. Wang

Associate Professors: T. H. Allen, W. W. Walcott

Assistant Professors: L. J. Cizek, N. A. DiSalvo, W. L. Nastuk

Assistant Clinical Professor: H. A. Abramson

Research Assistant: C. Pallavicini

At Mt. Sinai Hospital:

Assistant Clinical Professor: F. Hollander

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Physiology 101Fo—Human physiology. Three hours lecture, one hour conference, and twelve hours laboratory a week. First year. 10 pts. Members of the staff.

Physiology 103Fo—Correlative clinic. First year.

See *Anatomy 114FFo.*

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Physiology 201—Advanced physiology. Professor Gregersen and staff.

Tu. Th. 3–5. Laboratory by arrangement.

History of physiology and modern experimental methods. The course includes practice in spectrophotometric and gasometric methods, neurophysiological procedures, surgical techniques, methods of measuring cardiac output, blood volume, etc.

Physiology 207T—Surface chemistry by electrokinetic methods: seminar. By arrangement. Professor Abramson.

Methods of electrophoresis, electro-osmosis, and steaming potentials are described. Application of these procedures to blood cells, bacteria, spermatozoa, proteins, and other systems of medical importance are discussed in detail.

Physiology 251–252—Research in physiology. Eligibility to be determined on consultation. Members of the staff.

For courses offered under the Faculty of Pure Science consult the Pure Science announcement.

PSYCHIATRY

Professors: F. J. Kallman, L. C. Kolb (*Executive Officer*), W. S. Langford. I. H. MacKinnon

Professors of Biochemistry: W. M. Sperry, H. Waelsch

Clinical Professors: G. E. Daniels (*Medicine*), A. Kardiner, R. B. McGraw

Associate Professors of Clinical Psychiatry: P. H. Hoch, W. A. Horwitz, P. Polatin

Associate Clinical Professors: N. Ackerman, H. Bruch, G. Goldman, K. Kelley, H. R. Klein

Assistant Professor of Microbiology: N. Kopeloff

Assistant Professor of Neuropathology: L. Roizin

Assistant Professor of Medicine: J. H. Scheinberg

Assistant Professor of Biochemistry: H. J. Strecher

Assistant Clinical Professors: B. H. Balser, V. Bernard, B. Buchenholz, J. Cattell, A. Karush, L. G. Lowrey, R. Moulton, L. Ovesey, M. Sapirstein

Associates: R. D. Craig, R. Gilder, Jr., B. R. Easser, H. L. Hall, G. A. Jervis, S. Karlen, L. M. Kopeloff, J. P. Lambert, M. S. Mahler, L. Moses, B. L. Pacella, B. A. Pasquarelli, A. Schick, W. A. Schonfeld, E. S. Schreiber, D. Shapiro, R. Sobel, E. S. Tauber, R. Taylor, M. P. Torre (*Public Health*), J. Weber, E. Welsch

Research Associates: G. Eros, A. Falek, M. Gold, L. B. Kalinowsky, H. Pennes, E. I. Strongin

Research Associates in Biochemistry: H. L. Meltzer, H. Sachs, B. Weiss

Instructors: A. B. Adam, A. L. Brush, R. J. Carotenuto, H. Chartock, L. Cobliner, M. Cohen, J. A. Cook, D. B. Douglas, S. Dunaif, H. D. Dunton, O. Frankel, L. Gidro-Frank (*Obstetrics and Gynecology*), A. I. Goldfarb, I. Harrison, C. Hogan, J. Lubart, J. E. McGowan, H. McHugh, R. J. Mearin, J. A. M. Meerloo, A. Miranda-Rivera, M. Naftalin, J. F. Oliven, E. L. Priest, P. E. Ryberg, E. Savitsky, L. Scheinman, R. A. Senescu, C. W. Socarides, S. Stirt, M. O. Strahl, V. N. Wilking

Assistants: A. M. Bottino, W. A. Brooks, J. Cederquist, H. D. DeWitt, R. W. W. Evans, E. J. Hornick, M. M. Lawrence, S. Malitz, I. M. Marcus, C. Moffett, S. E. Post, DeS. F. Philpot, Jr.[1]

Research Assistants: G. S. Baroff, M. Glusman, D. Sank, E. Schneider, D. J. B. Schwartz, W. Stewart

Lecturer: D. M. Levy

At Creedmore State Hospital:

Assistant Clinical Professor: J. R. Whittier (*Neurology*)

At Manhattan State Hospital:

Assistant Clinical Professor: N. E. Stein

Instructor: H. C. B. Denber

At Mt. Sinai Hospital:

Clinical Professor: M. R. Kaufman

Lecturers: C. Fisher, P. Goolker

At Rockland State Hospital:

Research Associate: N. Kline (*Neurology*)

Research Assistants: Y. Taketomo (*Neurology*), P. B. Vestergaard (*Neurology*)

[1] On leave 1955–1956.

At St. Luke's Hospital:

Associate Clinical Professor: J. Cotton

At the Institute for the Crippled and Disabled:

Instructors: L. A. Gelb, J. D. Sullivan, A. B. Szalita-Pemow

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Psychiatry 101FST—Introduction to human behavior. Twenty-two one-hour lectures. First year. Professor Kolb and staff.

Psychiatry 102S—Psychopathology. Eleven one-hour lectures. Second year. 1 pt. Professor MacKinnon and staff.

Psychiatry 203–204—Clinical psychiatry. Fifteen hours clinical conferences. Clinical clerkships, twelve hours a week for eleven weeks. Third year. Professors Daniels, Horwitz, McGraw, MacKinnon and Polatin, and clinical staff.

Psychiatry 205—Clinical psychiatry: special fields of clinical psychiatry (medical, sociological, and legal aspects). One and one-half hours a week for ten weeks. Fourth year. Professors Daniels, Horwitz, Langford, McGraw, MacKinnon, and Polatin.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Psychiatry 219–220—Psychometric methods. Forenoons, twice a week. Psychiatric Institute.

Practical exercises in mental measurements. Limited to two students.

Psychiatry 221–222—Elective in psychiatry. Hours to be arranged. Third year. Professor Kolb.

At the Psychiatric Institute and Presbyterian Hospital.

SCHOOL OF PUBLIC HEALTH AND ADMINISTRATIVE MEDICINE

Public Health Practice:

Professor: W. C. Spring, Jr.
Associate Professors: M. W. Barnard, H. E. Hilleboe
Assistant Professors: M. Antell, A. J. Beckmann
Assistant Professor of Dental Health Practice: N. W. Chilton
Administrative Assistant: L. Gerold
Associate in Psychiatry: M. P. Torre
Lecturers: D. B. Ast, E. G. Brown, J. H. Kinnaman, P. J. Rafle, E. Sessoms
Lecturer in Forensic Medicine: B. M. Vance
Lecturer in Medical Jurisprudence: B. Werne

Administrative Medicine:

Professor: E. D. Barnett, R. E. Trussell (*Executive Officer*)
Associate Professor: M. Cherkasky, C. C. Clay
Associate Professor of Hospital Administration: B. C. MacLean
Assistant Professors: H. B. Makover, G. A. Silver

Research Associate: B. B. Palmer
Instructor: M. P. Shorney
Research Assistant: N. M. Weiss
Lecturer: G. Baehr
Lecturers in Hospital Administration: A. J. Binkert, E. M. Bluestone, A. E. Grosso, E. Hayt, R. N. Kerst, J. Masur, E. A. Mosso, C. G. Roswell, R. P. Sloan, J. E. Snyder, J. G. Steinle, D. K. Tuller, R. A. Wyman

Public Health Education:

Professor: G. Rosen
Lecturers: R. T. Fisher, E. M. Gruenberg, G. W. Larimore, S. S. Lifson, I. S. Shapiro

Biostatistics:

Professor: J. W. Fertig
Instructors: A. Baronovsky, A. P. Berger
Lecturers: C. L. Erhardt, J. E. Silson

Epidemiology:

Professor: E. G. Clark
Associate Professors: S. Frant, R. L. Vought
Assistant Professor: M. Greenberg
Instructor: A. C. Gelman
Lecturers: L. Schneider, R. F. Sikes

Occupational Medicine:

Professor: L. J. Goldwater
Associate Professor: I. R. Tabershaw
Associate Professor of Nutrition: N. Jolliffe
Assistant Professor: B. Mintz
Lecturer: M. Kleinfeld
Lecturers in Nutrition: R. S. Goodhart, G. G. Mudge

Sanitary Science:

Associate Professor: A. R. Jacobson
Lecturer: H. B. Robinson

Tropical Medicine:

Professor of Parasitology: H. W. Brown
Associate Professor of Medical Entomology: R. W. Williams
Assistant Professor: H. B. Shookhoff
Assistant Professor of Parasitology: K. L. Hussey
Research Associate in Parasitology: K. F. Chan
Instructors: K. G. Dwork, M. M. Sterman

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Public Health 101S—Parasitic diseases: the protozoa, helminths, and arthropods of medical significance. Five hours lecture, laboratory, and demonstrations. Second year. 3 pts. Professor Brown and staff.

Public Health 201—Statistical analysis of medical and public health data. One hour a week for ten weeks. First year. Professor Fertig.

Public Health 203–204—Preventive medicine and public health. Six hours a week; lectures, seminars, public health clinics, and field work in public health and medical care for eleven weeks. Third year. Staff.

Public Health 207–208—Preventive medicine and public health. One hour a week for ten weeks. Fourth year. Staff.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

The School of Public Health and Administrative Medicine provides a wide variety of electives in public health practice, biostatistics, epidemiology, occupational medicine, parasitology, etc. Fourth-year students interested in pursuing further studies in preventive medicine and public health should consult the Announcement of the School of Public Health and Administrative Medicine and confer with the professor concerned.

The Announcement of the School of Public Health and Administrative Medicine, describing courses leading to the degrees of Master of Science, Master of Public Health, and Doctor of Public Health, may be obtained at the School of Public Health and Administrative Medicine, 600 West 168th Street, New York 32, N.Y.

RADIOLOGY

Professors: J. Caffey, G. Failla (*Physics*), H. W. Jacox (*Acting Executive Officer*), E. H. Quimby (*Physics*)

Associate Professors: M. M. Kligerman, H. H. Rossi (*Physics*), R. Rugh (*Biology*), J. M. Taveras, J. S. Wells, R. Wish

Associate Professor of Clinical Radiology: C. W. Schwartz

Associate Professor of Clinical Ophthalmology: R. L. Pfeiffer

Assistant Professors: A. L. Bachman, R. J. Guttmann, G. S. Schwartz

Associate: C. B. Braestrup

Instructors: M. Alpert, D. J. Barnett, D. Bate, F. M. Cummins, C. J. Dalton, K. Ellis, J. L. Jarvis, D. W. Johnson, S. A. Lough, S. H. Madell, J M. Moynahan, J. Nadelhaft, E. F. Parsons, R. Schlaeger, N. DuV. Tapley

At Mary Imogene Bassett Hospital:

Assistant Clinical Professor: O. D. Sahler

At Goldwater Memorial Hospital:

Associate: H. K. Taylor

At Hospital for Joint Diseases:

Associate: M. M. Pomeranz

At Mt. Sinai Hospital:

Associate Clinical Professors: S. Feitelberg (*Physics*), B. S. Wolf

Instructor: S. M. Silverstone

At Montefiore Hospital:
Associate Clinical Professor: S. Fineman
Associate: J. R. Fried

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Radiology 201–202—Diagnostic radiology. One hour a week for twenty-two weeks. Third year. Professors Caffey, Kligerman, Schwartz, Taveras, and Drs. Alpert, Barnett, Cummins, Dalton, Jarvis, Nadelhaft, Schlaeger.

In this course typical films are demonstrated during medical and surgical clerkships *(Medicine 201–202* and *Surgery 204–205)*.

Radiology 203–204—X-ray interpretation. Conferences four hours a week for four weeks. Fourth year. Professors Wells and Wigh.

Radiology 205—Radiotherapy. Three hours. Third and fourth years. Professors Jacox and Kligerman. Two lectures given during the combined clinic series (*Medicine 205–206*).

Radiology 206—Biologic effects of ionizing radiation. Four one-hour lectures. Third year. Professors Jacox and Kligerman.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

ELECTIVE COURSES

Radiology 210—Radiologic physics. One lecture a week during the Winter Session. 1 pt. Professors Failla and Rossi.

This course is given for those wishing to familiarize themselves with the fundamental ideas of radiation physics. The following subjects are considered: atomic structure, electromagnetic radiations, radioactivity, absorption and scattering of radiation, and measurement of ionizing radiations.

Prerequisite: *Physics 111–112* and *Mathematics 104,* or their equivalents.

Radiology 211—Radioactive isotopes in biology and medicine. One lecture a week during the Spring Session. 1 pt. Professor Quimby.

Tu. 4.

This course is planned for those who expect to use radioactive isotopes as tracers in medical or physiological research, and for those who expect to cooperate in their therapeutic applications. Topics include basic theories of radioactivity, production and measurement of radioactive isotopes, safe handling and protection, tracer techniques, dosage calculations, and somewhat detailed studies of certain isotopes which are especially useful in this field.

Prerequisite: *Radiology 210* or equivalent.

Radiology 212—Radiobiology. One lecture a week during the Spring Session. 1 pt. Professor Rugh.

Th. 4.

This course is intended for those whose training and interests are primarily in biology and related subjects, since it deals with the effects of ionizing radiations on biological systems. Some of the subjects discussed are: theories of interaction of radiation and matter; effects of radiations on genes, chromosomes, cells, tissues (e.g., blood and gonads), and whole bodies; effects on metabolism and growth; time-intensity relations; lethal factors and hazards; modification of effects and recovery from radiation injury; radioautographic and other techniques.

Prerequisite: *Radiology 210* or equivalent.

Radiology 213—Clinical radiology. Four- to six-week periods throughout the third year. Professors Kligerman and Wigh.

This course is a clinical clerkship in roentgen diagnosis and radiotherapy. It includes roentgen anatomy and technique, methods of film interpretation and fluoroscopy, and the diagnosis, treatment, and follow-up care of the patient with cancer.

SURGERY

Professors: V. K. Frantz, G. H. Humphreys II (*Executive Officer*), R. Lattes
Professors of Clinical Surgery: A. J. Kremen, L. W. Sloan, T. W. Stevenson, Jr.
Associate Professor of Anatomy: M. R. Murray
Associate Professors of Clinical Surgery: A. H. Blakemore, R. A. Deterling, R. H. E. Elliott, Jr., C. D. Haagensen, D. V. Habif, H. D. Harvey, E. L. Howes, M. R. Porter, R. N. Schullinger
Assistant Professors: G. C. Godman, N. Lane
Assistant Professor of Microbiology: J. D. MacLennan
Assistant Professors of Clinical Surgery: H. G. Barker, D. C. Bull, R. S. Grinnell, F. R. McAllister, R. L. Moore, R. V. Santulli, J. Scudder, E. B. Self
Assistant Clinical Professors: H. S. F. Cooper, J. Ferrer, E. N. Goodman, J. A. Tamerin
Research Associates: B. Johnson, G. Katz, M. S. Parshley, E. Peterson
Research Associate in Biochemistry: L. S. Dietrich
Instructors: H. Auchincloss, Jr., R. H. Clauss, G. F. Crikelair, C. W. Findlay, F. P. Herter, R. B. Hiatt,[1] J. Prudden, P. D. Wiedel, W. Woodruff
Research Assistants: H. H. Benitez, C. Morris, M. E. Phillips, M. S. Schwartz
Assistants: H. F. Luddecke, A. Rigau, H. D. Sirak

At Bellevue Hospital:

Professor of Clinical Surgery: F. B. Berry,[1]
Clinical Professors: K. M. Lewis, R. H. Wylie
Assistant Clinical Professors: H. C. Maier, R. S. Mueller, P. C. Potter, D. M. Weeks
Associates: J. F. Bagg, M. Chamberlain, E. L. Frazell, W. W. Heroy, A. Himmelstein, H. A. Kingsbury, A. Lambert, C. Lester, T. S. Winslow
Instructors: J. Ford,[1] P. Kirschner, A. Papas, H. C. Reusch, E. G. Stanley-Brown, W. A. Wichern
Assistant: M. Moley

At Mary Imogene Bassett Hospital:

Clinical Professor: M. A. McIver
Assistant Clinical Professors: J. Mithoefer, J. H. Powers

At Mt. Sinai Hospital:

Clinical Professors: J. H. Garlock, M. M. Ravitch, A. S. W. Touroff

At Montefiore Hospital:

Clinical Professor: E. S. Hurwitt

At Roosevelt Hospital:

Clinical Professor: H. A. Patterson
Associate Clinical Professors: F. H. Amendola, J. E. Thompson

At St. Luke's Hospital:

Clinical Professor: H. A. Zintel
Assistant Clinical Professors: A. E. W. Ada, P. C. Morton, B. R. Shore
Instructors: R. W. Frazer, W. G. Knox

[1] On leave 1955–1956.

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Surgery 101S—Introduction to surgery. One hour a week for eleven weeks. Second year. Professors Frantz, Harvey, Lattes, and staff.

Surgery 102T—Recitations, demonstrations, and clinic in principles of surgery. (Includes *Orthopedic Surgery 205–206.*) Six hours a week for ten weeks. Second year. Professors Frantz, Harvey, Lattes, and staff.

Surgery 201–202—Surgery lectures. One hour a week for twenty-three weeks. Third year. Professor Humphreys and staff.

Surgery 204–205—Surgical outpatient department and anesthesia. (Includes *Surgery 211–212, Radiology 201–202,* and *Orthopedic Surgery 203–204.*) Five mornings and five afternoons for five and a half weeks. Third year. Professor Humphreys and staff.

Surgery 209–210—Outpatient clinical clerkships. Two months, combined with *Medicine 207–208.* Fourth year. Professor Humphreys and staff.

The student has the opportunity to work five full days a week in Vanderbilt Clinic in a group practice program.

Surgery 211–212—Practical instruction in surgical pathology. Two hours a week, combined with *Surgery 204–205,* five and a half weeks. Third year. Professor Frantz.

Surgery 213–214—Clinical clerkship in surgery. Five days a week for one month. Fourth year. Professor Humphreys and staff. Can be taken at one of the following hospitals: Presbyterian, Roosevelt, St. Luke's, and Mary Imogene Bassett.

Surgery 217–218—Clinical clerkships at Bellevue Hospital. Fourth year. Professor Berry and assistants. May be taken in place of *Medicine 221–222.*

Surgery 219–220—Diagnosis of cancer. Twelve lectures. Fourth year. Professor Haagensen.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Surgery 221–222—Research in surgical laboratory. For third- and fourth-year students during the college year and summer months. Professor Habif and assistants.

Definite problems are assigned which may be distinct entities or phases of some of the larger problems being studied in the laboratory.

Surgery 225—Tissue culture as a research method. One hour lecture and three hours laboratory from November 1 to February 1, Professor Murray and assistants.

Conferences and individual instruction dealing with the structure and function of normal neoplastic cells, technique of tissue culture, and interpretation of results. For qualified graduate students.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

UROLOGY

Professor: J. K. Lattimer (*Executive Officer*)
Professor of Clinical Urology: G. W. Fish
Associate Clinical Professor: J. N. Robinson
Assistant Professor: P. B. Hudson
Assistant Professor of Biochemistry: T. Price

Assistant Professor of Microbiology: H. Seneca
Assistant Clinical Professors: C. T. Hazzard, M. M. Melicow
Associate: R. C. Yeaw
Research Associates in Biochemistry: M. E. Lombardo, M. London, K. K. Tsuboi
Instructors: R. F. Seidel, T. J. Sullivan, R. J. Veenema
Assistants: S. B. Braham, R. Kollmar, S. Pulrang, A. T. Willets

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Urology 201–202—Clinical clerkships in urology, in the Squier Urological Clinic. Fourth year. Professors Lattimer and Fish, and staff.

This course consists of lectures, demonstrations, and surgical motion pictures illustrating the fundamental pathogenesis, diagnosis, and treatment of urological disorders. Cystoscopic diagnosis, Roentgen diagnosis, and pathological demonstrations are presented. Patients are studied on the wards, and a term paper is required.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

SPECIAL FIELD: BIOPHYSICS

The degree of Doctor of Philosophy for work in the field of biophysics is under the administration of the Joint Committee on Graduate Instruction through its Subcommittee on Biophysics of which the members are:

Shirley L. Quimby, *Professor of Physics, Chairman*
G. Failla, *Professor of Radiology (Physics)*
Edith H. Quimby, *Professor of Radiology (Physics)*
G. E. Kimball, *Professor of Chemistry*
D. Rittenberg, *Professor of Biochemistry*
W. S. Root, *Professor of Physiology*
F. J. Ryan, *Associate Professor of Zoology*

The following course is required for the degree of Doctor of Philosophy:

Biophysics 202—Special problems and techniques in biophysics. Four hours Spring Session. 4 pts. Lectures by several officers of instruction of the Faculty of Medicine.
M. W. 4–5, F. 4–6.

This course is designed to acquaint the student with the scope of biophysics and to give him an introduction to its special methods and techniques. The first group of topics includes basic methods such as spectroscopy, microscopy, photoelectric and diffraction phenomena, and the application of these to physiological problems of nerve and muscle activity, locomotion, heat and blood flow, and the special senses. These are followed by consideration of stable and radioactive isotopes, X rays, and the biological effects of radiation. Throughout the course, emphasis will be on applications to biological problems, not on methods or phenomena.
Prerequisite: *Physics 111–112, Mathematics 104, Chemistry 91–92,* and *Zoology 141,* or their equivalents.

Students may choose electives from selected courses in biochemistry, neurology, otolaryngology, physiology, and radiology in the College of Physicians and Surgeons, and in chemistry, mathematics, physics, and zoology at the Morningside campus. See specific departments in this announcement and in the Announcement of the Faculty of Pure Science.

Prospective candidates for the degree of Doctor of Philosophy in the field of biophysics should consult the chairman of the subcommittee concerning required and optional courses and other specific requirements for the degree.

REFERENCE BOOKS AND TEXTBOOKS

The following list includes required and recommended books. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. *Students are advised against buying any books until specifically advised by the departments concerned.*

Gross Anatomy. Required: *Textbook of Anatomy,* Cunningham, $15; *Atlas of Descriptive Human Anatomy, Vol. III,* Sobotta, $17.50; Dorland's or Stedman's *Medical Dictionary,* $11.50.

Microscopic Anatomy. Required: *Bailey's Textbook of Histology* (13th ed.), Smith and Copenhaver, $9. Recommended but not required: *Textbook of Histology* (6th ed.), Maximow and Bloom, $10.

Neuroanatomy. Required: *Human Neuroanatomy* (3d ed.), Strong and Elwyn, $7.50; *Laboratory Manual for Neuroanatomy,* Elwyn, $.75. Recommended but not required: *Functional Neuroanatomy,* Krieg, $9; *Neuroanatomy* (2d ed.), Mettler, $10.50; *The Anatomy of the Nervous System* (9th ed.), Ranson and Clark, $8.50.

Embryology. Required (one of the following): *Developmental Anatomy* (6th ed.), Arey, $10; *Human Embryology* (2d ed.), Patten, $12.

Biochemistry. Required: *Principles of Biochemistry,* White, Handler, Smith, Stetten, $15; *Laboratory Manual* (1956), Staff, $1.50.

Dermatology. Recommended but not required: *Diseases of the Skin* (4th ed.), Andrews, $13.50; *Practical Dermatology,* Lewis, $7.50; *Modern Clinical Syphilology* (3d ed.), Stokes, $12; *Syphilis, Its Course and Management,* Thomas, $5.50.

Medicine. Recommended but not required: *Principles and Practice of Physical Diagnosis* (2d ed.), Martini, $2; *Clinical Hematology,* Wintrobe, Lea, and Febiger (3d ed.), $12.50; *Physiological Basis of Medical Practice* (4th ed.), Best and Taylor, $10; *Biochemistry of Disease* (2d ed.), Bodansky, Macmillan, $12; *Textbook of Medicine* (8th ed.), Cecil and Loeb, $13; *Principles of Internal Medicine,* Harrison, $15; *Classical Descriptions of Disease,* Major, $7. Reference textbooks: *Loose-Leaf Medicine,* Oxford, $150.

Microbiology. Required: *Laboratory Manual in Microbiology and Immunology,* $3; *Zinsser's Textbook of Bacteriology* (10th ed.), Smith-Conant, $11. Recommended but not required: *Bacterial and Mycotic Infections of Man* (2d ed.), edited by Dubos, $7.50; *Viral and Rickettsial Infections of Man* (2d ed.), edited by Rivers, $7.50.

Neurology. Required: *The Clinical Examination of the Nervous System,* Monrad-Krohn, $7.50, or *The Neurologic Examination,* DeJong, $18; and one of the following: *Textbook of Neurology,* Merritt, $12.50; *Neurology,* Grinker, $12.50; *A Textbook of Clinical Neurology,* Wechsler, $9.50; *Diseases of the Nervous System,* Brain, $8.50. Recommended but not required: *Basis of Clinical Neurology,* Brock, $7; *Fundamentals*

of Clinical Neurology, Merritt, Mettler and Putnam, $6; *Neuroanatomy,* Mettler, $10.50; *Diseases of the Nervous System in Infancy, Childhood and Adolescence,* Ford, $18.50.

Obstetrics and Gynecology. Required for gynecology (one of the following): *Textbook of Gynecology* (6th ed.), Curtis and Huffman, $11; *Textbook of Gynecology* (4th ed.), Novak, $9. Required for obstetrics (one of the following): *Williams' Obstetrics* (10th ed.), Eastman, $12:50; *Principles and Practice of Obstetrics* (10th ed.), Greenhill-De Lee, $12.50; *Obstetrical Practice* (5th ed.), Beck, $10.

Ophthalmology. Recommended: *May's Diseases of the Eye* (21st ed. rev. by C. A. Perera), $6; *Gifford's Textbook of Ophthalmology* (5th ed.), F. H. Adler, $7.50.

Otolaryngology. Required (one of the following): *Diseases of the Nose, Throat and Ear,* Boise, $6; *Otology, Rhinology and Laryngology,* Ballenger, $8; *Specialties in General Practice* (chapters on ear, nose and throat), Cecil, $15.

Pathology. Required for *101FST* (one of the following): *Textbook of Pathology,* Moore, $12.50; *Textbook of Pathology,* Boyd, $10; *Human Pathology,* Karsner, $12; *Pathology,* Anderson, $15.

Pediatrics. Required (one of the following): *Holt Pediatrics,* Holt and McIntosh, $15; *Textbook of Pediatrics,* W. E. Nelson, $15. Recommended but not required: *Growth and Development of Children,* Watson and Lowrey (2d ed.), $7; *Pediatric X-ray Diagnosis* (2d ed.), Caffey, $22.50.

Pharmacology. Required: *The Pharmacological Basis of Therapeutics,* Goodman and Gilman (2d ed.), $17.50.

Physiology. Required (one of the following): *Starling's Textbook of Physiology* (11th ed.), $11; *Howell's Textbook of Physiology* (15th ed.), Fulton, $9; *Physiology in Health and Disease* (5th ed.), Wiggers, $10; *Physiological Basis of Medical Practice* (5th ed.), Best and Taylor, $11; *Medical Physiology,* Bard.

Psychiatry. Required: *Emotional Problems of Living,* English and Pearson, (rev. ed., 1955), $3.75; *Fundamentals of Psychiatry,* Strecker, $4. Recommended but not required: *Textbook of Psychiatry* (4th ed.), Noyes, $7; *Psychiatry in General Practice,* Thorner, $8.

Public Health. Recommended: *Textbook of Clinical Parasitology* (1952), Belding, $12.50; *Preventive Medicine and Public Health* (2d ed., 1952), W. G. Smillie, $7.50; *Textbook of Preventive Medicine,* H. R. Leavell and E. G. Clark, $8; *Rosenau, Preventive Medicine and Hygiene* (7th ed.), Kenneth F. Maxcy, $14.

Radiology. Recommended but not required: *Outline of Roentgen Diagnosis,* Rigler, $6.50; *Radiology for Medical Students,* Hodges, Lampe, and Holt, $6.75.

Surgery. Required: *Introduction to Surgery,* Frantz and Harvey, $2.50; *A Manual of Fractures and Dislocations,* Stimson, $3.25. Recommended but not required: *Textbook of Surgery* (4th ed.), Christopher, $12; *General Surgery* (5th ed.), Cole and Elman,

$11; *Inhalation Anesthesia,* Guedel, $4; *Surgery,* Homans, $8; *The Management of Fractures,* Key and Conwell, $15; *Practice of Surgery,* Lewis, $137; *Fractures* (2 vols.), Watson-Jones, $20.

Urology. Recommended but not required: *Clinical Urology,* McCrea (1948), $6.50; *Synopsis of Genitourinary Diseases* (4th ed., 1950), Dodson, $4.

A microscope of standard make fitted with the following attachments will fill the student's requirements:

1. Triple nosepiece
2. Abbe or variable focus condenser
3. 10x and 6x oculars
4. 16mm. and 4mm. objectives
5. Oil immersion lens

The cost of a suitable reconditioned microscope varies from $100 to $230 depending on the age, make, and model. The standard prices of new microscopes range from $351 to $582. Each student should also provide himself with a substage lamp. Microscopes may be rented at $6 to $8 a month or $52 to $70 for a school year, depending on the condition of the microscope. A limited supply of binoculars are available also for rental at from $12 to $15 a month, or $100 to $125 a school year. Students are required to secure the usual instruments needed for the various diagnostic examinations of patients.

OFFICERS OF INSTRUCTION OF THE FACULTY OF MEDICINE

PROFESSORS, ASSOCIATE PROFESSORS, AND ASSISTANT PROFESSORS INCLUDING THOSE IN THE GRADUATE PROGRAM

ABRAMSON, HAROLD A., *Assistant Clinical Professor of Physiology;* A.B., Columbia, 1920; M.D., 1923

ACKERMAN, NATHAN, *Associate Clinical Professor of Psychiatry;* A.B., Columbia, 1929; M.D., 1933

ADA, ALEXANDER E. W., *Assistant Clinical Professor of Surgery;* B.A., Queen's (Ontario), 1923; M.D., 1926

ADLERSBERG, DAVID, *Assistant Clinical Professor of Medicine;* M.D., Vienna, 1921

AGATE, FREDERICK J., *Associate Professor of Anatomy;* A.B., Columbia, 1932; Ph.D., 1949

ALDRIDGE, ALBERT H., *Clinical Professor of Obstetrics and Gynecology;* B.S., Syracuse, 1915; M.D., 1918

ALEXANDER, HATTIE E., *Associate Professor of Pediatrics;* A.B., Goucher, 1923; M.D., Johns Hopkins, 1930

ALLANACH, MARY E., *Assistant Professor of Nursing;* B.S., Columbia, 1932; A.M., 1937

ALLEN, THOMAS H., *Associate Professor of Physiology;* A.B., Iowa, 1936; Ph.D., 1941

ALTMAN, HARRY S., *Assistant Clinical Professor of Pediatrics;* M.D., New York University, 1921

ALTMANN, FRANZ, *Clinical Professor of Otolaryngology;* M.D., Vienna, 1925

AMENDOLA, FREDERICK H., *Associate Clinical Professor of Surgery;* B.S., College of City of New York, 1923; M.D., Cornell, 1927

ANDERSEN, DOROTHY H., *Associate Professor of Pathology;* A.B., Mt. Holyoke, 1922; M.D., Johns Hopkins, 1926; Med.Sc.D., Columbia, 1935

ANDREWS, GEORGE C., *Clinical Professor of Dermatology;* A.B., Cornell, 1912; M.D., Columbia, 1918

ANTELL, MICHAEL, *Assistant Professor of Public Health Practice;* M.D., Long Island College, 1926; M.P.H., Harvard, 1939

ANTENUCCI, ARTHUR J., *Associate Clinical Professor of Medicine;* B.S., College of the City of New York, 1926; M.D., Columbia, 1930

APGAR, VIRGINIA, *Professor of Anesthesiology;* A.B., Mt. Holyoke, 1929; M.D., Columbia, 1933

APPLEBAUM, EDMUND, *Associate Professor of Dental Anatomy;* D.D.S., New York College of Dentistry, 1922

ARDEN, HOWARD A., *Assistant Professor of Dentistry;* B.S., Fordham, 1943; D.D.S., Columbia, 1946

ATCHLEY, DANA W., *Professor of Clinical Medicine;* B.S., Chicago, 1911; M.D., Johns Hopkins, 1915

AYERS, HERBERT D., Jr., *Assistant Clinical Professor of Dentistry;* A.B., Columbia, 1929; D.D.S., 1931

BACHMAN, ARNOLD L., *Assistant Professor of Radiology;* B.S., New York University, 1931; M.D., 1934

BAILEY, FREDERICK R., *Clinical Professor of Medicine;* A.B., Princeton, 1924; M.D., Johns Hopkins, 1928

BAKER, DANIEL C., Jr., *Clinical Professor of Otolaryngology;* A.B., Pennsylvania, 1929; M.D., Jefferson, 1933; Med.Sc.D., Columbia, 1939

BALSER, BENJAMIN A., *Assistant Clinical Professor of Psychiatry;* A.B., Rochester, 1926; A.M., Harvard, 1927; M.D., Buffalo, 1931; Med.Sc.D., Columbia, 1937

BARACH, ALVAN L., *Clinical Professor of Medicine;* M.D., Columbia, 1919

BARKER, HAROLD G., *Assistant Professor of Clinical Surgery;* A.B., Utah, 1939; M.D., Pennsylvania, 1943

BARKER, LESLIE P., *Assistant Clinical Professor of Dermatology;* M.D., Columbia, 1927

BARNARD, MARGARET W., *Associate Professor of Public Health Practice;* A.B., Smith, 1917; M.D., Cornell, 1923; D.P.H., Johns Hopkins, 1935

BARNETT, E. DWIGHT, *Professor of Administrative Medicine;* A.B., Stanford, 1921; M.D., 1928

BARTELS, HENRY A., *Assistant Professor of Oral Pathology;* B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927

BARTELSTONE, HERBERT J., *Assistant Professor of Pharmacology;* B.S., College of City of New York, 1942; D.D.S., Columbia, 1945

BECKMANN, ALBERT J., *Assistant Professor of Public Health Practice;* A.B., Cornell, 1938; M.S., North Carolina, 1941; M.D., Wake Forest, 1945

BEGG, CHARLES F., *Assistant Professor of Pathology;* A.B., Boston, 1935; M.D., Harvard, 1939

BEHRE, JEANETTE A., *Assistant Professor of Biochemistry;* A.B., Vassar, 1913; Ph.D., Cornell, 1920

BENHAM, RHODA W., *Associate Professor of Dermatology;* A.B., Columbia, 1917; A.M., 1919; Ph.D., 1931

BERKE, RAYNOLD, N., *Assistant Clinical Professor of Ophthalmology;* A.B., Minnesota, 1926; M.B., 1928; M.D., 1929

BERNARD, VIOLA W., *Assistant Clinical Professor of Psychiatry;* B.S., New York University, 1933; M.D., Cornell, 1936

BERRY, FRANK B., *Professor of Clinical Surgery;* A.B., Harvard, 1914; M.D., 1917

BEUBE, FRANK E., *Clinical Professor of Dentistry;* L.D.S., D.D.S., Toronto, 1930

BEVANS, MARGARET, *Associate Professor of Pathology;* A.B., Trinity, 1931; M.D., Columbia, 1935

BICKERMAN, HYLAN, *Assistant Clinical Professor of Medicine;* A.B., Columbia, 1934; M.D., New York University, 1939

BIERMAN, WILLIAM, *Assistant Clinical Professor of Physical Medicine and Rehabilitation;* A.B., Columbia, 1915; M.D., 1917

BILOON, SOL, *Assistant Clinical Professor of Medicine;* B.S., College of the City of New York, 1915; M.D., Cornell, 1919

BLAKEMORE, ARTHUR H., *Associate Professor of Clinical Surgery;* B.S., William and Mary, 1918; M.D., Johns Hopkins, 1922

BLOCH, ROBERT G., *Clinical Professor of Medicine;* M.D., Munich, 1921

BOOTS, RALPH H., *Associate Clinical Professor of Medicine;* B.S., Geneva, 1911; M.D., Pittsburgh, 1915

BORDLEY, JAMES, III, *Clinical Professor of Medicine;* Ph.B., Yale, 1923; M.D., Johns Hopkins, 1927

BRADLEY, STANLEY E., *Associate Professor of Medicine;* A.B., Johns Hopkins, 1934; M.D., Maryland, 1938

BRAGG, EVERETT C., *Assistant Clinical Professor of Orthopedic Surgery;* A.B., Cornell, 1936; M.D., 1940

BRANDES, WALTER W., *Assistant Professor of Pathology;* A.B., North Central, 1922; M.S., Northwestern, 1926; M.D., 1927; Ph.D., 1930

BRICKNER, RICHARD M., *Assistant Clinical Professor of Neurology;* B.S., Columbia, 1917; M.D., 1923

BROWN, HAROLD W., *Professor of Parasitology;* A.B., Kalamazoo, 1924; M.S., Kansas State, 1925; Sc.D., Johns Hopkins, 1928; M.D., Vanderbilt, 1933; D.P.H., Harvard, 1936

BROWN, NORTON S., *Assistant Clinical Professor of Medicine;* A.B., Stanford, 1925; M.D., 1928

BROWNE, GEORGE V., *Associate Professor of Clinical Otolaryngology;* M.D., Boston University, 1924

BRUCE, GORDON M., *Professor of Clinical Ophthalmology;* B.A., M.D., and C.M., Dalhousie, 1925; D.Ophth., Oxford, 1928; Med.Sc.D., Columbia, 1934

BRUCH, HILDE, *Associate Clinical Professor of Psychiatry;* B.A., Muenchen-Gladbach, 1923; M.D., Freiburg, 1929

BRUENN, HOWARD G., *Assistant Clinical Professor of Medicine;* A.B., Columbia, 1925; M.S., 1933; Med.Sc.D., 1934; M.D., Johns Hopkins, 1929

BRUSH, JOHN M., *Assistant Clinical Professor of Pediatrics;* B.S., Princeton, 1921; M.D., Columbia, 1925

BUCHENHOLZ, BRUCE, *Assistant Clinical Professor of Psychiatry;* B.S., New York University, 1936; M.D., Long Island, 1941

BUDOWSKY, JACK, *Assistant Clinical Professor of Dentistry;* D.D.S., Columbia, 1943

BULL, DAVID C., *Assistant Professor of Clinical Surgery;* Ph.B., Yale, 1912; A.M., and M.D., Columbia, 1916

BUNDRANT, THEODORE M., *Associate Clinical Professor of Dentistry;* D.D.S., Howard, 1929

BUNZEL, ERNEST E., *Clinical Professor of Obstetrics and Gynecology;* Litt.B., Princeton, 1914; M.D., Columbia, 1918

BYSSHE, STANLEY M., *Associate Professor of Clinical Obstetrics and Gynecology;* A.B., Harvard, 1927; M.D., 1931

CAFFEY, JOHN, *Professor of Radiology;* A.B., Michigan, 1916; M.D., 1919

CAHN, LESTER R., *Associate Professor of Oral Pathology;* D.D.S., New York College of Dentistry, 1918

CAIN, EDWARD A., Jr., *Associate Professor of Dentistry;* B.S., Fordham, 1942; D.D.S., Columbia, 1945

CALLAHAN, MARY E., *Assistant Professor of Physical Therapy; Director of Training for Physical Therapists;* R.N., Clinton Hospital, 1937; R.P.T., Posse College, 1940

CAMPBELL, JAMES B., *Assistant Professor of Neurological Surgery;* A.B., Harvard, 1931; M.D., 1935

CARDEN, GEORGE A., Jr., *Assistant Clinical Professor of Medicine;* Ph.B., Yale, 1931; M.D., 1935

CARPENTER, MALCOLM B., *Assistant Professor of Anatomy;* A.B., Columbia, 1943; M.D., Long Island, 1947

CARTER, SIDNEY, *Associate Professor of Neurology;* A.B., Dartmouth, 1934; M.D., Boston, 1938

CATTELL, JAMES P., *Assistant Clinical Professor of Psychiatry;* A.B., Miami, 1938; M.D., Harvard, 1942

CAVANAGH, WILLIAM V., *Assistant Professor of Clinical Obstetrics and Gynecology;* M.D., Syracuse, 1924

CAVENESS, WILLIAM F., *Assistant Professor of Neurology;* A.B., North Carolina, 1929; M.D., McGill, 1943

CHANEY, LEONIDAS B., *Clinical Professor of Neurology;* A.B., Fredericksburg, 1912; M.D., Medical College of Virginia, 1918

CHARGAFF, ERWIN, *Professor of Biochemistry,* Ph.D., Vienna, 1928

CHERKASKY, MARTIN, *Associate Professor of Administrative Medicine;* A.B., Temple, 1932; M.D., 1936

CHILTON, NEAL W., *Assistant Professor of Dental Public Health Practice;* B.S., College of the City of New York, 1939; D.D.S., New York University, 1943; M.P.H., Columbia, 1946

CIZEK, LOUIS J., *Assistant Professor of Physiology;* B.S., Fordham, 1937; M.D., Columbia, 1941

CLARK, E. GURNEY, *Professor of Epidemiology;* A.B., Vanderbilt, 1927; M.D., 1931; M.P.H., Johns Hopkins, 1936; D.P.H., 1944

CLARKE, HANS T., *Professor of Biochemistry;* B.Sc., London, 1908; D.Sc., 1914; D.Sc., Rochester, 1953

CLAY CLEMENT C., *Associate Professor of Administrative Medicine;* A.B., Columbia, 1927; M.D., McGill, 1932

CLEVELAND, MARION D., *Assistant Professor of Nursing;* B.S., Columbia, 1941; M.S., 1945

COFFIN, G. JARVIS, *Associate Clinical Professor of Medicine;* M.D., New York University, 1921

COHN, LOUIS A., *Associate Clinical Professor of Dentistry;* D.D.S., Pennsylvania, 1928

CONNELL, JOHN N., *Assistant Clinical Professor of Obstetrics and Gynecology;* A.B., St. Peters, 1916; A.M., 1917; M.D., Columbia, 1920

COON, ROBERT W., *Associate Professor of Pathology;* B.S., North Dakota, 1942; M.D., Rochester, 1944

COOPER, HENRY S. F., *Assistant Clinical Professor of Surgery;* A.B., Yale, 1917; M.D., Harvard, 1924

COPENHAVER, WILFRED M., *Professor of Anatomy;* A.B., Western Maryland, 1921; Ph.D., Yale, 1925

COSGROVE, ROBERT A., *Assistant Clinical Professor of Obstetrics and Gynecology;* A.B., Cornell, 1933; M.D., 1936

COURNAND, ANDRÉ F., *Professor of Medicine;* B.A., Paris, 1913; P.C.N., 1914; M.D., 1930

COVELL, CECILE, *Assistant Professor of Nursing;* B.S., Columbia, 1936

COWEN, DAVID, *Associate Professor of Neuropathology;* A.B., Columbia, 1928; M.D., 1932

CRAMER, FRITZ, *Associate Clinical Professor of Neurological Surgery;* A.B., Pomona, 1922; M.D., Cornell, 1926

CUTTITA, JOSEPH A., *Assistant Professor of Dentistry;* A.B., Fordham, 1932; M.S., 1936; D.D.S., Columbia, 1939

DAGLIAN, KOURKEN A., *Assistant Clinical Professor of Dentistry;* B.S., College of the City of New York, 1941; D.D.S., Columbia, 1943

DAMON, VIRGIL G., *Clinical Professor of Obstetrics and Gynecology;* A.B., Ohio State, 1918; M.D., 1921

DAMROSCH, DOUGLAS S., *Assistant Clinical Professor of Pediatrics;* A.B., Columbia, 1937; M.D., 1940

DANIELS, GEORGE E., *Clinical Professor of Psychiatry;* B.S., Dartmouth, 1918; M.D., Harvard, 1922

DARLING, ROBERT C., *Professor of Physical Medicine and Rehabilitation;* A.B., Harvard, 1929; M.D., 1934

DAVIDSON, JACK, *Assistant Professor of Medicine;* A.B., Princeton, 1940; M.D., Columbia, 1943

DAVISON, CHARLES, *Assistant Clinical Professor of Neurology;* B.S., Pittsburgh, 1918; M.D., 1920

DEMING, QUENTIN B., *Assistant Professor of Medicine;* A.B., Dartmouth, 1941; M.D., Columbia, 1943

D'ESOPO, D. ANTHONY, *Professor of Clinical Obstetrics and Gynecology;* Ph.B., Yale, 1920; M.D., 1924

DETERLING, RALPH A., Jr., *Associate Professor of Clinical Surgery;* A.B., Stanford, 1938; M.D., 1942; M.S., Minnesota, 1946; Ph.D., 1947

DETWILER, SAMUEL R., *Professor of Anatomy;* Ph.B., Yale, 1914; A.M., 1916; Ph.D., 1918; M.S. (*hon.*), 1931

DIEUAIDE, FRANCIS R., *Clinical Professor of Medicine;* A.B., College of the City of New York, 1913; M.D., Johns Hopkins, 1920

DINNERSTEIN, MORRIS, *Clinical Professor of Medicine;* B.S., Columbia, 1916; M.D., 1918

DiSALVO, NICHOLAS A., *Assistant Professor of Physiology;* B.S., College of the City of New York, 1942; D.D.S., Columbia, 1946; Ph.D., 1952

DI SANT'AGNESE, PAUL A., *Assistant Professor of Pediatrics;* M.D., Rome (Italy), 1939; Med.Sc.D., Columbia, 1948

DISCHE, ZACHARIAS, *Associate Professor of Biochemistry;* A.B., Lwow (Poland), 1913; M.D., Vienna, 1921

DUNNINGTON, JOHN H., *Professor of Ophthalmology;* A.B., Hampden-Sydney, 1911; M.D., Virginia, 1915

ELFTMAN, HERBERT O., *Associate Professor of Anatomy;* A.B., California, 1923; A.M., 1925; Ph.D., Columbia, 1929

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NASTUK, WILLIAM L., *Assistant Professor of Physiology;* B.S., Rutgers, 1939; Ph.D., 1945

NATHAN, ALVIN S., *Associate Clinical Professor of Dentistry;* B.S., New York University, 1935; A.M., 1938; D.D.S., Columbia, 1936

NELSON, CARL T., *Professor of Dermatology;* A.B., Harvard, 1935; A.M., 1937; M.D., 1941

NICKERSON, JOHN L., *Professor of Physiology;* B.A., Dalhousie, 1925; M.A., 1928; Ph.D., Princeton, 1935

NOBACK, CHARLES R., *Associate Professor of Anatomy;* B.S., Cornell, 1936; M.S., New York University, 1938; Ph.D., Minnesota, 1942

O'CONNELL, CLINTON P., *Assitant Professor of Clinical Obstetrics and Gynecology;* B.S., Yale, 1928; M.D., Columbia, 1932

OMAN, CARL R., *Professor of Dentistry;* D.D.S., Minnesota, 1914

OPPENHEIMER, ARMAND, *Assistant Clinical Professor of Dentistry;* A.B., College of the City of New York, 1926; B.S., Columbia, 1927; D.D.S., 1929

OTANI, SADAO, *Associate Professor of Pathology;* M.D., Chida Medical School (Japan), 1919

OVESEY, LIONEL, *Assistant Clinical Professor of Psychiatry;* A.B., California, 1937; M.D., 1941

PAPPER, EMANUEL M., *Professor of Anesthesiology;* A.B., Columbia, 1935; M.D., New York University, 1938

PATEK, ARTHUR J., JR., *Associate Clinical Professor of Medicine;* A.B., Harvard, 1926; M.D., 1930

PATTERSON, HOWARD A., *Clinical Professor of Surgery;* A.B., North Carolina, 1921; M.D., Harvard, 1925

PECK, SAMUEL M., *Associate Clinical Professor of Dermatology;* B.S., Columbia, 1922; M.D., 1924

PEIGHTAL, THOMAS C., *Clinical Professor of Gynecology;* Ph.B., Franklin and Marshall, 1911; M.D., Johns Hopkins, 1915

PERERA, CHARLES A., *Associate Clinical Professor of Ophthalmology;* A.B., Princeton, 1926; M.D., Columbia, 1930; Med.Sc.D., 1936

PERERA, GEORGE A. *Associate Professor of Medicine;* A.B., Princeton, 1933; M.D., Columbia, 1937; Med.Sc.D., 1942

PETO, MARJORIE, *Assistant Professor of Nursing;* B.S., Columbia, 1940

PETTIT, HELEN F., *Assistant Professor of Nursing;* B.S., Columbia, 1940

PFEIFER, RAYMOND L., *Associate Professor of Clinical Ophthalmology;* A.B., Wittenberg, 1924; M.D., Ohio State, 1928; M.S., Columbia, 1933; Med.Sc.D., 1934

PLEASURE, MAX A., *Associate Clinical Professor of Dentistry;* D.D.S., Pennsylvania, 1928; M.S., Columbia, 1941

PLENTL, ALBERT A., *Assistant Professor of Obstetrics and Gynecology;* A.M., Princeton, 1935; Ph.D., Columbia, 1940; M.D., Cornell, 1948

POLATIN, PHILLIP, *Associate Professor of Clinical Psychiatry;* M.D., Columbia, 1934

POOL, J. LAWRENCE, *Professor of Neurological Surgery;* A.B., Harvard, 1928; M.D., Columbia, 1932; Med.Sc.D., 1941

PORTER, MILTON R., *Associate Professor of Clinical Surgery;* A.B., Cornell, 1938; M.D., 1941

POTTER, PHILIP C., *Assistant Clinical Professor of Surgery;* A.B., Williams, 1914; M.D., Columbia, 1918

POWERS, JOHN H., *Assistant Clinical Professor of Surgery;* A.B., Bates, 1919; B.A., Oxford, 1923; M.D., Harvard, 1925

PRICE, THOMAS D., *Assistant Professor of Biochemistry;* A.B., California, 1942; Ph.D., Columbia, 1951

QUIMBY, EDITH H., *Professor of Radiology (Physics);* B.S., Whitman, 1912; A.M., California, 1915; Sc.D. (*hon.*), 1940

RABIN, COLEMAN B., *Assistant Clinical Professor of Medicine;* B.S., Columbia, 1920; M.D., 1922

RACKOW, HERBERT, *Assistant Professor of Anesthesiology;* B.S., Pennsylvania State, 1939; M.D., Howard, 1946

RAGAN, CHARLES, *Associate Professor of Medicine;* A.B., Princeton, 1932; M.D., Columbia, 1936

RANSOHOFF, JOSEPH, *Assistant Professor of Clinical Neurological Surgery;* B.S., Harvard, 1938; M.D., Chicago, 1941

RAPPAPORT, ISRAEL, *Assistant Clinical Professor of Medicine;* M.D., Budapest, 1918

RAPPLEYE, WILLARD C., *Vice President in Charge of Medical Affairs; Dean; Professor of Medical Economics;* A.B., Illinois, 1915; M.D., Harvard, 1918; A.M., Yale, 1922; Sc.D., Trinity (Conn.), 1939; Rutgers, 1949; Med.Sc.D., Women's Medical College of Pennsylvania, 1950

RAVITCH, MARK M., *Clinical Professor of Surgery;* A.B., Oklahoma, 1930; M.D., Johns Hopkins, 1934

REESE, ALGERNON B., *Clinical Professor of Ophthalmology;* B.S., Davidson, 1917; M.D., Harvard, 1921

RICHARDS, DICKINSON W., *Lambert Professor of Medicine;* A.B., Yale, 1917; A.M., Columbia, 1922; M.D., 1923

RIGGINS, H. McLEOD, *Assistant Clinical Professor of Medicine;* B.S., North Carolina, 1922; M.D., Jefferson, 1924

RILEY, CONRAD M., *Associate Professor of Pediatrics;* A.B., Yale, 1934; M.D., Harvard, 1938

RITTENBERG, DAVID, *Professor of Biochemistry;* B.S., College of the City of New York, 1929; Ph.D., Columbia, 1934

ROBINSON, JOHN N., *Associate Clinical Professor of Urology;* A.B., Harvard, 1927; M.D., 1931

ROGERS, WILLIAM M., *Assistant Professor of Anatomy;* B.S., Georgia, 1921; Ph.D., Cornell, 1927

ROIZIN, LEON, *Assistant Professor of Neuropathology;* B.A., State Lyceum (Bessarabia), 1930; M.D., Royal University (Milan), 1936

ROOT, WALTER S., *Professor of Physiology;* B.S., Wesleyan, 1924; Ph.D., Pennsylvania, 1930

ROSE, HARRY M., *John E. Borne Professor of Medical and Surgical Research;* A.B. Yale, 1928; M.D., Cornell, 1932

ROSEN, GEORGE, *Professor of Public Health Education;* B.S., College of the City of New York, 1930; M.D., Berlin, 1935; Ph.D., Columbia, 1944; M.P.H., 1947

ROSENSTEIN, SOLOMON N., *Professor of Dentistry;* B.S., College of the City of New York, 1929; D.D.S., Columbia, 1930

ROSENTHAL, THEODORE, *Assistant Clinical Professor of Dermatology;* B.S., Columbia, 1921; M.D., 1923

ROSSI, HARALD H., *Associate Professor of Radiology (Physics);* Ph.D., Johns Hopkins, 1942

ROTHENBERG, FRED, *Assistant Clinical Professor of Dentistry;* D.M.D., Goettingen, 1935; D.D.S., Pennsylvania, 1937

RUGH, ROBERTS, *Associate Professor of Radiology;* A.B., Oberlin, 1926; M.S., 1927; Ph.D., Columbia, 1935

RUSSELL, THEODORE B., *Assistant Clinical Professor of Medicine;* B.S., Princeton, 1926; M.D., 1930

SAFIAN, ALFRED, *Assistant Professor of Clinical Anesthesiology;* A.B., New York University, 1934; B.S., Arkansas, 1936; M.D., 1941

SAHLER, OTTO D., *Assistant Clinical Professor of Radiology;* M.S., Rochester, 1936; M.D., 1938

SALMON, LEON A., *Assistant Professor of Clinical Neurology;* A.B., Harvard, 1922; M.D., Columbia, 1925

SANDS, IRVING J., *Associate Clinical Professor of Neurology;* M.D., Columbia, 1913

SANGER, BERTRAM J., *Associate Clinical Professor of Medicine;* A.B., Texas, 1913; M.D., Johns Hopkins, 1917

SANTULLI, THOMAS V., *Assistant Professor of Clinical Surgery;* B.S., Columbia, 1935; M.D., Georgetown, 1939

SAPIRSTEIN, MILTON R., *Assistant Clinical Professor of Psychiatry;* B.S., College of the City of New York, 1934; M.D., New York University, 1938

SAVOY, WILLIAM J., *Clinical Professor of Dentistry;* B.S., Manhattan, 1931; D.D.S., Columbia, 1935

SCARFF, JOHN E., *Professor of Clinical Neurological Surgery;* B.S., Princeton, 1920; M.D., Johns Hopkins, 1924

SCHEINBERG, ISRAEL H., *Assistant Professor of Medicine;* A.B., Harvard, 1940; M.D., 1943

SCHLESINGER, EDWARD B., *Assistant Professor of Clinical Neurological Surgery;* A.B., Pennsylvania, 1934; M.D., 1938

SCHLUGER, SAUL, *Associate Clinical Professor of Dentistry;* D.D.S., Louisville, 1931

SCHROFF, JOSEPH, *William Carr Professor of Oral Surgery;* B.S., College of the City of New York, 1909; M.D., Columbia, 1920; D.D.S., 1922

SCHULLINGER, RUDOLPH N., *Associate Professor of Clinical Surgery;* B.S., Princeton, 1917; M.D., Columbia, 1923

SCHWARTZ, C. WADSWORTH, *Associate Professor of Clinical Radiology;* Ph.B., Yale, 1914; M.D., Harvard, 1919

SCHWARTZ, HERMAN, *Assistant Professor of Anesthesiology;* A.B., New York University, 1944; M.D., 1946

SCHWARTZ, L. LASZLO, *Clinical Professor of Dentistry;* B.S., College of the City of New York, 1927; D.D.S., Columbia, 1931

SCHWARTZ, SIDNEY P., *Associate Clinical Professor of Medicine;* B.S., Columbia, 1918; M.D., 1922

SCHWARTZMAN, JOEL J., *Assistant Clinical Professor of Radiology;* A.B., Pennsylvania, 1931; M.D., Jefferson, 1936

SCHWARZ, GERHART S., *Assistant Professor of Radiology;* M.D., Basle, 1939

SCHWEDEL, JOHN B., *Assistant Clinical Professor of Medicine;* M.D., Maryland, 1927

SCIARRA, DANIEL, *Assistant Professor of Neurology;* A.B., Harvard, 1940; M.D., 1943

SCUDDER, JOHN, *Assistant Professor of Clinical Surgery;* B.S. Rutgers, 1923; M.D., Harvard, 1927; Med.Sc.D., Columbia, 1939

SEEGAL, BEATRICE C., *Associate Professor of Microbiology;* A.B., California, 1918; A.M., 1921; M.D., Johns Hopkins, 1924

SEEGAL, DAVID, *Professor of Medicine;* M.D., Harvard, 1928

SELF, EDWARD B., *Assistant Professor of Clinical Surgery;* A.B., Yale, 1932; M.D., Columbia, 1936; Med.Sc.D., 1943

SENECA, HARRY, *Assistant Professor of Microbiology;* M.D., American University, Beirut, 1933; M.S., Tulane, 1943; F.A.C.P., 1946

SEVERINGHAUS, AURA E., *Associate Dean; Associate Professor of Anatomy;* B.S., Columbia, 1916; A.M., 1919; Ph.D., 1929

SEVERUD, OLAF J., *Associate Clinical Professor of Obstetrics and Gynecology;* A.B., Columbia, 1929; M.D., 1923

SHAPIRO, HARRY H., *Assistant Professor of Anatomy;* D.M.D., Tufts, 1918

SHELDON, PAUL B., *Assistant Clinical Professor of Medicine;* A.B., Oberlin, 1917; M.D., Washington, 1922

SHELDON, WILLIAM H., *Assistant Professor of Medicine;* A.B., Brown, 1918; A.M., Colorado, 1923; Ph.D., Chicago, 1926; M.D., 1933

SHEMIN, DAVID, *Professor of Biochemistry;* B.S., College of the City of New York, 1932; A.M., Columbia, 1933; Ph.D., 1938

SHERMAN, HAROLD, *Assistant Clinical Professor of Dentistry;* B.S., College of the City of New York, 1935; D.D.S., Michigan, 1946

SHERMAN, WILLIAM B., *Associate Clinical Professor of Medicine;* A.B., Columbia, 1926; A.M., 1927; M.D., 1931

SHETTLES, LANDRUM B., *Assistant Professor of Clinical Obstetrics and Gynecology;* A.B., Mississippi, 1933; A.M., New Mexico, 1934; Ph.D., Johns Hopkins, 1937; M.D., 1943

SHOOKHOFF, HOWARD B., *Assistant Professor of Tropical Medicine;* A.B., Columbia, 1930; M.D., 1933

SHORE, BENJAMIN R., *Assistant Clinical Professor of Surgery;* A.B., Missouri, 1920; M.D., Harvard, 1924

SHWARTZMAN, GREGORY, *Professor of Microbiology;* M.D., Brussels, 1921

SILBERMANN, MAXIMILIAN, *Assistant Clinical Professor of Neurology;* M.D., Vienna, 1930

SILTZBACH, LOUIS E., *Assistant Clinical Professor of Medicine;* M.D., Long Island, 1929

SILVER, GEORGE A., *Assistant Professor of Administrative Medicine;* A.B., Pennsylvania, 1934; M.D., Jefferson, 1938; M.P.H., Johns Hopkins, 1948

SILVER, SOLOMON, *Assistant Clinical Professor of Medicine;* M.D., New York University, 1927

SILVERMAN, WILLIAM A., *Assistant Professor of Clinical Pediatrics;* A.B., California, 1939; M.D., 1942

SILVERSTEIN, WILLIAM H., *Assistant Clinical Professor of Dentistry;* D.D.S., Maryland, 1937

SIMMS, HENRY S., *Assistant Professor of Biochemistry;* B.S., Massachusetts Institute of Technology, 1920; Ph.D., Columbia, 1922

SLOAN, LAWRENCE W., *Professor of Clinical Surgery;* M.D., Harvard, 1925

SMELSER, GEORGE K., *Professor of Anatomy;* A.B., Earlham, 1929; Ph.D., Chicago, 1932

SMITH, ALAN DEFOREST, *Professor of Orthopedic Surgery;* A.B., Columbia, 1913; M.D., 1915

SMITH, FREDERICK M., *Associate Professor of Clinical Orthopedic Surgery;* A.B., Yale, 1922; A.M., 1923; M.D., Columbia, 1927; Med.Sc.D., 1934

SMITH, GILBERT P., *Professor of Dentistry;* D.D.S., Minnesota, 1927

SMITH, HARRY P., *Delafield Professor of Pathology;* A.B., California, 1916; M.S., 1918; M.D., 1921

SNOW, WILLIAM B., *Professor of Physical Medicine;* M.D., Long Island, 1920

SOUTHWORTH, HAMILTON, *Associate Clinical Professor of Medicine;* A.B., Yale, 1929; M.D., Johns Hopkins, 1933

SPAIN, DAVID M., *Assistant Professor of Pathology;* B.S., Maryland, 1932; M.D., 1936

SPERRY, WARREN M., *Professor of Biochemistry;* B.Chem., Cornell, 1921; M.S., Illinois, 1922; Ph.D., Rochester, 1925

SPRING, WILLIAM C., *Delamar Professor of Public Health Practice;* M.D., Duke, 1937; M.P.H., Columbia, 1947

SPRINSON, DAVID, *Associate Professor of Biochemistry;* B.S., College of the City of New York, 1931; M.S., New York University, 1936; Ph.D., Columbia, 1946

SPROUL, EDITH E., *Associate Professor of Pathology;* A.B., Barnard, 1928; M.D., Columbia, 1931

STEER, CHARLES M., *Associate Professor of Clinical Obstetrics and Gynecology;* A.B., Columbia, 1933; M.D., 1937; Med.Sc.D., 1942

STEIN, NOBE E., *Assistant Clinical Professor of Psychiatry;* M.D., Berlin, 1921

STEINER, ALFRED, *Assistant Clinical Professor of Medicine;* B.S., Richmond, 1930; M.D., Medical College of Virginia, 1933; Med.Sc.D., Columbia, 1938

STERN, LEO, SR., *Clinical Professor of Dentistry;* D.D.S., New York College of Dentistry, 1912

STEVENSON, THOMAS W., JR., *Professor of Clinical Surgery;* A.B., Utah, 1925; M.D., Harvard, 1929

STEWART, WELLINGTON B., *Associate Professor of Pathology;* B.S., Notre Dame, 1942; M.D., Rochester, 1945

STINCHFIELD, FRANK E., *Professor of Clinical Orthopedic Surgery;* B.S., North Dakota, 1932; M.D., Northwestern, 1934

STOLL, FRANCES A., *Associate Professor of Dental Hygiene;* B.S., Columbia, 1944; A.M., 1945; Ed.D., 1949

STOWE, LEWIS R., *Professor of Dentistry;* D.D.S., Minnesota, 1916

STRECKER, HAROLD J., *Assistant Professor of Biochemistry;* B.S., College of the City of New York, 1940; Ph.D., Western Reserve, 1950

TABERSHAW, IRVING R., *Associate Professor of Occupational Medicine;* B.S., Pennsylvania, 1928; M.D., Long Island, 1933

TAGGART, JOHN V., *Associate Professor of Medicine;* M.D., Southern California, 1940

TAMERIN, JOSEPH A., *Assistant Clinical Professor of Surgery;* B.S., New York University, 1928; M.D., Cornell, 1932

TANCHESTER, DAVID, *Clinical Professor of Dentistry;* D.D.S., New York University, 1921

TAUSIG, DANIEL P., *Assistant Professor of Anesthesiology;* A.M., Columbia, 1933; M.D., 1937

TAVERAS, JUAN M., *Associate Professor of Radiology;* B.S., Normal School, Santiago, 1937; M.D., Santiago, 1943; M.D., Pennsylvania, 1949

TAYLOR, GURNEY, *Assistant Clinical Professor of Medicine;* A.B., Williams, 1925; M.D., Pennsylvania, 1930

TAYLOR, HOWARD C., *Professor of Obstetrics and Gynecology;* Ph.B., Yale, 1920; M.D., Columbia, 1924

THOMPSON, JAMES E., *Associate Clinical Professor of Surgery;* A.B., Texas, 1924; M.D., 1927

THOMSON, K. JEFFERSON, *Associate Clinical Professor of Medicine;* M.D., Harvard, 1931

TILLMAN, ALVIN J. B., *Assistant Professor of Clinical Obstetrics and Gynecology;* A.B., Columbia, 1924; M.D., 1927

TOTTEN, ARTHUR C., *Professor of Dentistry;* D.D.S., Pennsylvania, 1926

TOUROFF, ARTHUR S. W., *Clinical Professor of Surgery;* B.S., New York University, 1921; M.D., Columbia, 1925

TRUSSELL, RAY E., *DeLamar Professor of Administrative Medicine; Associate Dean (Public Health);* A.B., Iowa, 1936; M.D., 1941; M.P.H., Johns Hopkins, 1947

TUOTI, FERDINAND A., *Assistant Clinical Professor of Dentistry;* D.M.D., Harvard, 1928

TURNER, JOSEPH C., *Associate Professor of Clinical Medicine;* A.B., Columbia, 1929; M.D., 1933; Med.Sc.D., 1940

TURNER, KENNETH B., *Associate Professor of Clinical Medicine;* A.B., Hamilton, 1922; M.D., Harvard, 1926

VAN DYKE, HARRY B., *Hosack Professor of Pharmacology;* B.S., Chicago, 1918; Ph.D., 1921; M.D., Rush, 1923

VERLIN, WILLIAM A., *Assistant Clinical Professor of Dentistry;* A.B., Columbia, 1929; D.D.S., 1931

VICALE, CARMINE T., *Associate Professor of Clinical Neurology;* A.B., New York University, 1929; M.D., 1933

VON LACKUM, WILLIAM H., *Assistant Clinical Professor of Orthopedic Surgery;* B.S., Iowa, 1916; M.D., 1918; Med.Sc.D., Columbia, 1935

VON SALLMANN, LUDWIG, *Professor of Ophthalmology;* M.D., Vienna, 1919

WAELSCH, HEINRICH B., *Professor of Biochemistry;* M.D., Prague, 1929; Ph.D., 1930

WALCOTT, WILLIAM W., *Associate Professor of Physiology;* A.B., Yale, 1933; Ph.D., Columbia, 1944

WALTNER, JULES, *Associate Professor of Clinical Otolaryngology;* M.D., University of Debrecen (Hungary), 1933

WANG, SHIH-CHUN, *Professor of Physiology;* B.S., Yenching, 1931; M.D., Peiping Union Medical College, 1935; Ph.D., Northwestern, 1940

WASSERMAN, LOUIS R., *Assistant Clinical Professor of Medicine;* A.B., Harvard, 1931; M.D., Rush, 1935

WATERS, EDWARD G., *Assistant Clinical Professor of Obstetrics and Gynecology;* Ph.B., Yale, 1919; M.D., Harvard, 1922

WATKINS, MELVIN B., *Assistant Professor of Clinical Orthopedic Surgery;* A.B., Utah, 1930; M.B., Northwestern, 1935; M.D., 1936

WEEKS, DAVID M., *Assistant Clinical Professor of Surgery;* M.D., Michigan, 1927

WÉGRIA, RENÉ, *Assistant Professor of Medicine;* M.D., Liège, 1936; Med.Sc.D., Columbia, 1945

WEINGARTEN, BERTHOLD, *Assistant Clinical Professor of Medicine;* M.D., Frankfort, 1922

WEITZEN, HYMAN G., *Assistant Clinical Professor of Neurology;* A.B., New York University, 1934; M.D., 1938

WELLS, JOSEPHINE S., *Associate Professor of Radiology;* A.B., Barnard, 1932; M.D., Columbia, 1938

WERNER, SIDNEY C., *Associate Professor of Clinical Medicine;* A.B., Columbia, 1929; M.D., 1932; Med.Sc.D., 1937

WERTHEIM, ARTHUR R., *Assistant Professor of Medicine;* A.B., Dartmouth, 1935; M.D., Jefferson, 1939

WHEELER, MAYNARD C., *Clinical Professor of Ophthalmology;* A.B., Stanford, 1926; M.D., Columbia, 1929; Med.Sc.D., 1938

WHITMAN, CLIFFORD L., *Assistant Clinical Professor of Dentistry;* D.D.S., Maryland, 1927

WHITTIER, JOHN R., *Assistant Clinical Professor of Psychiatry;* A.B., Harvard, 1939; M.D., Columbia, 1943

WIGH, RUSSELL, *Associate Professor of Radiology;* B.S., Rutgers, 1935; M.D., Harvard, 1939

WILCOX, HERBERT B., Jr., *Assistant Clinical Professor of Medicine;* A.B., Yale, 1930; M.D., Columbia, 1934

WILDE, DELPHINE, *Assistant Professor of Nursing;* B.S., Columbia, 1926

WILLIAMS, ROGER W., *Associate Professor of Medical Entomology;* B.S., Illinois, 1939; M.S., 1941; Ph.D., Columbia, 1947

WILSON, IRWIN B., *Assistant Professor of Biochemistry;* B.S., College of the City of New York, 1941; A.M., Columbia, 1947; Ph.D., 1948

WINKELSTEIN, ASHER, *Assistant Clinical Professor of Medicine;* B.S., Syracuse, 1915; M.D., 1917

WITOL, EVELYN, *Assistant Clinical Professor of Dentistry;* D.M.D., Tufts, 1945

WOLF, ABNER, *Professor of Neuropathology;* A.B., Columbia, 1923; M.D., 1926

WOLF, BERNARD S., *Associate Clinical Professor of Radiology;* B.S., New York University, 1932; M.D., 1936

WOLFF, JAMES A., *Assistant Clinical Professor of Pediatrics;* A.B., Harvard, 1935; M.D., New York University, 1940

WOOD, CHARLES L., *Associate Clinical Professor of Pediatrics;* B.S., New York University, 1926; M.D., Yale, 1930

WOODMAN, De GRAAF, *Clinical Professor of Otolaryngology;* B.S., Cornell, 1917; M.D., 1926

WYLIE, ROBERT H., *Clinical Professor of Surgery;* Ph.B., Yale, 1927; M.D., Columbia, 1931

YAHR, MELVIN D., *Assistant Professor of Clinical Neurology;* A.B., New York University, 1939; M.D., 1943

ZAMENHOF, STEPHEN, *Assistant Professor of Biochemistry;* M.E., Warsaw, Polytechnic, 1933; D.Tech.Sc., 1936; Ph.D., Columbia, 1949

ZEGARELLI, EDWARD V., *Associate Professor of Dentistry;* A.B., Columbia, 1934; D.D.S., 1937; M.S., Chicago, 1942

ZIMMERMAN, HARRY M., *Professor of Pathology;* B.S., Yale, 1924; M.D., 1927

ZINTEL, HAROLD A., *Clinical Professor of Surgery;* B.S., Akron, 1934; M.D., Pennsylvania, 1938

ZUCKER, THEODORE F., *Assistant Professor of Pathology;* A.B., Concordia, 1907; M.S., Illinois, 1912

SLANETZ, CHARLES A., *Curator of Animal Husbandry;* B.S., Connecticut, 1922; M.S., 1923; Ph.D., Yale, 1926

For names of associates, lecturers, and assistants, see departmental rosters (pages 27 ff.)

HOSPITAL APPOINTMENTS

CLASS OF 1955

Adams, Paul L.—Good Samaritan Hospital, Lexington, Ky.
Battat, Felix A.—University of Chicago Clinics, Chicago, Ill.
Baumgartner, Philip O.—Rhode Island Hospital, Providence, R. I.
Bergen, Stanley S.—St. Luke's Hospital, New York City
Berman, David—Maimonides Hospital, Brooklyn, N. Y.
Best, Lincoln R.—Strong Memorial Hospital, Rochester, N. Y.
Bilbao, Joseph—Roosevelt Hospital, New York City
Bishop, Robert T. E.—Greenwich Hospital, Greenwich, Conn.
Blum, Jerome V.—University of Wisconsin Hospital, Madison, Wis.
Brown, Donald L.—Hartford Hospital, Hartford, Conn.
Brunstetter, Richard—United States Public Health Service
Carpe, Lestra M.—King's County Hospital, Brooklyn, N. Y.
Ciaravino, William I.—St. Vincent's Hospital, New York City
Cobert, Norman—United States Public Health Service
Cosman, Bard—Roosevelt Hospital, New York City
Cruess, Richard L.—Royal Victoria Hospital, Montreal, Canada
Cruess, Sylvia—Royal Victoria Hospital, Montreal, Canada
Cushman, Paul, Jr.—Barnes Hospital, St. Louis, Mo.
DeHaan, Quentin C.—Temple University Hospital, Philadelphia, Pa.
DeVault, Walter D., Jr.—University of California at Los Angeles
Eberly, Richard J.—Pennsylvania Hospital, Philadelphia, Pa.
Eisinger, Robert P.—Beth Israel Hospital, New York City
Elias, Richard A.—Bellevue Hospital, New York City
Everett, William H.—St. Luke's Hospital, New York City
Fanoni, Roy H.—United States Public Health Service
Feld, Alan W.—Presbyterian Hospital, New York City
Fields, Dozier, N., Jr.—University of Michigan Hospital, Ann Arbor, Mich.
Fisher, Lloyd C.—Bellevue Hospital, New York City
Fleming, Peter—Mary Hitchcock Memorial Hospital, Hanover, N. H.
Frantz, Andrew G.—Presbyterian Hospital, New York City
Goldin, Gurston D.—Johns Hopkins Hospital, Baltimore, Md.
Gordon, Allan D.—Jackson Memorial Hospital, Miami, Fla.
Gordon, Arthur—Bronx Hospital, New York City
Griege, Charles W.—Bellevue Hospital, New York City
Griswold, John D.—New York Hospital, New York City
Halpern, Harriet Smith—Mount Sinai Hospital, New York City
Halstead, Scott B.—Bellevue Hospital, New York City
Heggie, John F.—Massachusetts General Hospital, Boston, Mass.
Heins, Marilyn J.—New York Hospital, New York City
Heitmann, Jane A.—Presbyterian Hospital, New York City
Herrmann, Richard A.—Bellevue Hospital, New York City
Kaimakliotis, Elias M.—George Washington University Hospital, Washington, D. C.
Kaplan, Alan L.—Jackson Memorial Hospital, Miami, Fla.
Kelly, Thorpe M.—Bellevue Hospital, New York City
Kessler, Alexander—Bellevue Hospital, New York City
King, E. Henry—United States Public Health Service
King, Memee H. K.—Bellevue Hospital, New York City
Kolomeyer, Norton—Highland County Hospital, Oakland, Calif.
Kosovsky, Nathan G.—Mount Sinai Hospital, New York City
Krotzer, Lawrence S.—University of Virginia Hospital, Charlottesville, Va.
Lai, Maxwell D.—Hospital of the University of Pennsylvania, Philadelphia, Pa.
Langmann, Robert D.—Bellevue Hospital, New York City
Leary, Daniel F.—St. Vincent's Hospital, New York City
Leeds, Warren W.—St. Luke's Hospital, New York City
Lovekin, William S.—Philadelphia General Hospital, Philadelphia, Pa.
Lum, Kwong Y.—King's County Hospital, Seattle, Wash.
McCartney, James R.—Boston City Hospital, Boston, Mass.
Mahin, Dorsey T.—United States Army Medical Services
Marcus, Donald M.—Presbyterian Hospital, New York City
Marshall, David—Mary Imogene Bassett Hospital, Cooperstown, N. Y.
Masi, Alphonse T.—Johns Hopkins Hospital, Baltimore, Md.
Merriam, Thornton W., Jr.—Mary Hitchcock Memorial Hospital, Hanover, N. H.
Milyko, Alexander B.—Mary Imogene Bassett Hospital, Cooperstown, N. Y.
Naeye, Richard L.—New York Hospital, New York City
Nam, Herbert Mu Hak—Cincinnati General Hospital, Cincinnati, Ohio
Nesbitt, George D.—King's County Hospital, Brooklyn, N. Y.
Newman, Ellen—King's County Hospital, Brooklyn, N. Y.

Ochoa, Manuel, Jr.—New York Hospital, New York City
Ohanessian, Simon—Philadelphia General Hospital, Philadelphia, Pa.
Pettee, Daniel S. —Strong Memorial Hospital, Rochester, N. Y.
Pew, Darlyne A.—Bellevue Hospital, New York City
Pierson, Anne B.—Lenox Hill Hospital, New York City
Pierson, Richard N., Jr.—St. Luke's Hospital, New York City
Polansky, Burton J.—Boston City Hospital, Boston, Mass.
Pollak, Emil M.—Indiana University Medical Center, Indianapolis, Ind.
Ranck, James B., Jr. —University of Chicago Clinics, Chicago, Ill.
Rawcliffe, Robert A., Jr.—Mary Fletcher Hospital, Burlington, Vt.
Redleaf, Paul D.—University of Minnesota Hospitals, Minneapolis, Minn.
Renthal, Alvan G.—King's County Hospital, Brooklyn, N. Y.
Resnik, Harvey L. P.—Philadelphia General Hospital, Philadelphia, Pa.
Rifkind, Richard A.—Presbyterian Hospital, New York City
Rochester, Dudley F.—Presbyterian Hospital, New York City
Rogers, Henry C.—Hartford Hospital, Hartford, Conn.
Rosett, Henry L.—Mount Sinai Hospital, New York City
Roth, Robert F.—St. Luke's Hospital, New York City
Rowley, Peter T.—New York Hospital, New York City
Rudinger, Edwin A.—Bellevue Hospital, New York City
Sampson, David M.—Bellevue Hospital, New York City
Schullinger, John N.—Presbyterian Hospital, New York City
Scudder, Walter T., III—Presbyterian Hospital, Pittsburgh, Pa.
Selly, George W.—Grace-New Haven Community Hospital, New Haven, Conn.
Sheridan, Sylvester R.—Boston City Hospital, Boston, Mass.
Siegel, Robert R.—King's County Hospital, Brooklyn, N. Y.
Silbersweig, Robert—Mt. Sinai Hospital, New York City
Silverman, Leon—Mt. Sinai Hospital, Cleveland, Ohio
Smith, Julian P.—University Hospitals, Cleveland, Ohio
Spalter, Harold F.—Presbyterian Hospital, New York City
Stocks, Joseph F.—Mary Imogene Bassett Hospital, Cooperstown, N. Y.
Stuckey, Robert F.—University of Virginia Hospital, Charlottesville, Va.
Taylor, Howard C., III—Grace-New Haven Community Hospital, New Haven, Conn.
Tramontozzi, Anthony D.—St. Luke's Hospital, New York City
Van Besien, Maurice J., Jr.—Roosevelt Hospital, New York City
Vang, Rolf R.—Roosevelt Hospital, New York City
Verdesca, Arthur S.—St. Luke's Hospital, New York City
Westerhoff, Peter D., Jr.—Detroit Receiving Hospital, Detroit, Mich.
Wheelock, Earle F.—University of Chicago Clinics, Chicago, Ill.
Wilson, John S.—Bellevue Hospital, New York City
Winfield, Mark E.—St. Luke's Hospital, New York City
Worcester, James N., Jr.—Presbyterian Hospital, New York City
Wunderlich, Ray C.—Strong Memorial Hospital, Rochester, N. Y.
Young, James K.—Pennsylvania Hospital, Philadelphia, Pa.
Zabriskie, John B.—Bellevue Hospital, New York City
Zawadsky, Joseph P.—Presbyterian Hospital, New York City

REGISTER OF STUDENTS

THIRD-YEAR CLASS—CLASS OF JUNE, 1956

Andrews, David — Shaker Heights, Ohio
A.B., Williams, 1952
Barry, Peter Ernest — Manhasset, N.Y.
A.B., Columbia, 1952
Bartlett, Raymond Clark — New York City
A.B., Columbia, 1952
Baruch, Hans H. — Brooklyn, N.Y.
A.B., Brooklyn College, 1952
Beatrice, Marianna Angela — Bristol, Conn.
A.B., Vassar, 1952
Black, Paul Henry — Newton, Mass.
A.B., Dartmouth, 1952
Bramwell, Edith Moffat — New York City
A.B., Smith, 1952
Brodsky, J. Putnam — Summit, N.J.
A.B., Princeton, 1952
Brown, Edward Osgood — Santa Fe., N.M.
A.B., Harvard, 1952
Brown, Roy Edward — White Plains, N.Y.
A.B., Columbia, 1952
Buker, Robert Hutchinson — Thailand
A.B., Boston, 1949; M.S., Maine, 1952
Burka, Edward R. — Washington, D.C.
A.B., Princeton, 1952
Burland, John Alexis — New York City
A.B., Colgate, 1952
Carver, Susan Townsend — Rockville Centre, N.Y.
A.B., Swarthmore, 1952
Casey, James Francis — Forest Hills, N.Y.
A.B., Holy Cross, 1952
Chastain, Charles William — Cookeville, Tenn.
A.B., Harvard, 1952
Clark, Lealand L. — Pleasant Grove, Utah
A.B., Columbia, 1952
Clements, Neil Carlton — Dayton, Ohio
A.B., Princeton, 1952
Cobb, Oliver Ellsworth — New York City
A.B., Williams, 1952
Copenhaver, Richard Marker — New York City
A.B., Columbia, 1952
Council, Francis Elbert, Jr. — Windom, Tex.
A.B., Texas Christian, 1952
[1]Crosby, Anne — Baltimore, Md.
A.B., Mount Holyoke, 1952
Curtis, Frederick Kingsbury — New Canaan, Conn.
A.B., Yale, 1952
Davidson, Jere Frank — Brooklyn, N.Y.
A.B., Yale, 1952
Dawson, Keith Granger — New York City
A.B., Princeton, 1952
Donaldson, Charles Louis — New York City
B.S., College of the City of New York, 1952
Dubin, Donald Theodore — Brooklyn, N.Y.
A.B., Harvard, 1952
Dunn, Leo James — Kings Park, L.I., N.Y.
A.B., Hofstra, 1952
Edelstein, Bernard — New York City
B.S., College of the City of New York, 1952
Elderkin, Janet Sage — Princeton, N.J.
A.B., Vassar, 1951
Farrer, Sanford Miller — Brooklyn, N.Y.
A.B., Princeton, 1952
Federowicz, Thomas Eugene — Plymouth, Pa.
A.B., Columbia, 1952
Feldman, Roland — Flushing, L.I., N.Y.
B.S., Iowa, 1952
Franklin, David Noel — New York City
A.B., Yale, 1952
Futterman, Edward Hugh — New York City
A.B., Dartmouth, 1952
[1]Gammella, Peter — Brooklyn, N.Y.
A.B., New York University, 1952
Ganem, Kenneth Joseph — Lowell, Mass.
A.B., Harvard, 1952
Gentile, Ralph Louis — Brooklyn, N.Y.
B.S., St. Francis, 1952
Gilbert, Robert Alfred — Trotwood, Ohio
A.B., Chicago, 1950
Gleason, Donald Mark — Brooklyn, N.Y.
A.B., Harvard, 1952
Goodale, Robert Lincoln, Jr. — Cambridge, Mass.
A.B., Princeton, 1952
Green, Arthur — Brooklyn, N.Y.
B.S., Columbia, 1952
Haber, Edgar — Yonkers, N.Y.
A.B., Columbia, 1952
Hardin, Byron — New York City
Hatfield, Wendel B. — Denver, Colo.
A.B., Columbia, 1953
Heady, William Chauncey — Orangeburg, N.Y.
A.B., Columbia, 1952
Healey, William Vincent — New York City
A.B., Princeton, 1952
Heckman, Margaret Gray — New York City
B.S., Ursinus, 1947; M.S., Columbia, 1950
Herrick Robert Henry — Berkeley, Calif.
A.B., California, 1952
Hirsch, Robert Stephen — Cedarhurst, N.Y.
A.B., Harvard, 1952
Hodgman, Christopher — Newton Centre, Mass.
A.B., Harvard, 1952
Hogan, Vincent Michael, Jr. — West Orange, N.J.
A.B., Princeton, 1952
Hovsepian, Jeanette Anahid — New York City
A.B., Barnard, 1952
Hulka, Jaroslav Fabian — Flushing, L.I., N.Y.
A.B., Harvard, 1952
Jacobs, Jerry C. — New York City
A.B., Columbia, 1952
Jassie, Marvin Paul — Brooklyn, N.Y.
A.B., Columbia, 1952
Jonas, Saran — New York City
B.S., Yale, 1952
Kaderabek, Donal Joseph — West Orange, N.J.
A.B., Harvard, 1952
Katz, Fred H. — New York City
A.B., Columbia, 1952
Kaufman, Richard Samuel — Shaker Heights, Ohio
A.B., Yale, 1952
Kohn, Kurt William — New York City
A.B., Harvard, 1952
Kuehner, Janet Lou — Pittsburgh, Pa.
A.B., Sarah Lawrence, 1945
Kurke, Nancy Booth — Brooklyn, N.Y.
A.B., Barnard, 1952
Lagomarsino, Fred John — Newark, N.J.
A.B., Columbia, 1952
Lawrence, Mary Christine — Landenburg, Pa.
B.S., Michigan, 1952
Leddy, John Plunkett — Brooklyn, N.Y.
A.B., Fordham, 1952
Lee, Burton James, III — Cold Spring Harbor, N.Y.
A.B., Yale, 1952

[1] Withdrew.

Lewis, F. Bruce — Cranford, N.J.
A.B., Harvard, 1952
Liachowitz, Claire H. — Mahanoy City, Pa.
A.B., Bryn Mawr, 1952
Liptzin, Yelva — Long Beach, N.Y.
A.B., Cornell, 1952
Litsky, Gerald M. — Plattsburg, N.Y.
B.S., McGill, 1952
Lobell, Stephen Miles — Jackson Heights, N.Y.
A.B., Columbia, 1952
McLoughlin, Patrick Thomas — New York City
A.B., Cornell, 1952
Mahew, Shirley Randall — Rochester, N.Y.
B.S., Illinois, 1945
Maslansky, Robert Abraham — Rego Park, N.Y.
A.B., Washington and Lee, 1952
Meier, Carl Frank — Flushing, L.I., N.Y.
A.B.. Columbia, 1952
Miller, Barnett Myron — Jersey City, N.J.
A.B., Columbia, 1951
Montana, Jerome Allan — Oyster Bay, L.I., N.Y.
A.B., Harvard, 1952
Montroy, Robert Edgar — Short Hills, N.J.
B.S., Upsala College, 1952
Moore, John Leslie — Paramus, N.J.
B.S., Bates, 1952
Moore, Thomas Jenner — Princeton, N.J.
A.B., Princeton, 1952
Mullaney, John — New York City
A.B., Columbia, 1952
Myers, Wayne Alan — Flushing, L.I., N.Y.
B.S., Arkansas, 1952
Nay, Howard Riley — Wheeling, W. Va.
A.B., Virginia Military Institute, 1952
Osnos, Robert John — New York City
A.B., Columbia, 1951; A.M., 1952
Pasternack, Frederick Oliver — Mineola, L.I., N.Y.
B.S., Rutgers, 1950
Pratt, Hugh Spencer, Jr. — Glendale, Calif.
A.B., Hobart, 1952
Pritchard, Hubert — New York City
A.B., Queens College, 1948
Putnam, Louis Reppert — Ashland, Ky.
B.S., Washington and Lee, 1952
Radwin, Howard Martin — Brooklyn, N.Y.
A.B., Princeton, 1952
Richter, Ralph Walter — Linden, N.J.
A.B., Columbia, 1952
Robinson, Theodore — New York City
A.B., Columbia, 1952
Rothbaum, Jerome C. — Elmont, N.Y.
A.B., Hofstra, 1952
Scian, Louis Francis — Trenton, N.J.
A.B., Princeton, 1952
Sickles, Charles Garret — Smithtown Br., L.I., N.Y.
A.B., Fordham, 1952
Silverman, Joseph Alexander — Clifton, N.J.
A.B., Princeton, 1952
Skilbred, Lars Arne — Brooklyn, N.Y.
A.B., Amherst, 1952
Speir, Robert Wade — New York City
A.B., Princeton, 1950
Spina, Christopher — Brooklyn, N.Y.
B.S., Columbia, 1951
Sweeting, Joseph George — Flushing, L.I., N.Y.
B.S., Holy Cross, 1952
Tarnay, Thomas Joseph — Hastings on Hudson, N.Y.
A.B., Cornell, 1952

[1] Withdrew.

Taylor, Nathan Siegfried — New York City
A.B., Columbia, 1952
Trayner, Edwin Michael — Jersey City, N.J.
A.B., Columbia, 1951
Triedman, Martin Howard — Pawtucket, R.I.
A.B., Brown, 1952
Truong, Xuan Thoai — Saigon, Vietnam, Indochina
B.S., West Liberty State, 1952
Tulevech, Charles B., Jr. — Great Neck, N.Y.
A.B., Columbia, 1949
Tyson, Nancy Dearmin — Indianapolis, Ind.
A.B., Indiana, 1951
Tyson, Robert Leonard — Merion, Pa.
B.E., Yale, 1952
Vandersluis, Alfred Bernard — Cleveland, Ohio
B.S., Baldwin-Wallace, 1952
Walzer, Richard Arnold — Scarsdale, N.Y.
A.B., Harvard, 1952
Watt, Donald James — New York City
A.B., Wesleyan, 1952
Weiss, William Pollitzer — New York City
A.B., Harvard, 1952
Wendt, Vernon Earl — Cleveland, Ohio
B.S., Baldwin-Wallace, 1952
[1]Westover, Wynn E. — Lincoln, Neb.
A.B., Wesleyan, 1950
Williams, Barbara — East Orange, N.J.
A.B., Cornell, 1949
Williams, Frank Scott — Brooklyn, N.Y.
A.B., Columbia, 1953
Winner, William — Kew Gardens Hills, L.I., N.Y.
A.B., Columbia, 1952
Wosnitzer, Morey — Newark, N.J.
B.S., Rutgers, 1951; M.S., 1952
Wu, Clyde Ying-Chau — Hong Kong, China
A.B., Johns Hopkins, 1952
Yankopoulos, Nicholas Alexander — Fall River, Mass.
A.B., Harvard, 1952
Yardley, Jack Milam — Worthington, Ind.
B.S., Purdue, 1949

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SECOND-YEAR CLASS—CLASS OF JUNE, 1957

Adler, Gerald — New York City
A.B., Columbia, 1951
Altman, Ronald — Brooklyn, N.Y.
A.B., Swarthmore, 1953
Ambrose, Robert B. — Short Hills, N.J.
A.B., Princeton, 1953
Andersen, Leon O. — Brooklyn, N.Y.
A.B., Harvard, 1951
Armstrong, Donald — Trenton, N.J.
A.B., Lehigh, 1953
Arnow, Lewis — New Rochelle, N.Y.
A.B., Harvard, 1953
Barrett, Stephen J. — New York City
A.B., Columbia, 1954
Bauman, Gene — Coytesville, N.J.
A.B., Columbia, 1953
[1]Belskie, Albert A. — Closter, N.J.
A.B., Columbia, 1953
Beltrani, Vincent S. — Brooklyn, N.Y.
A.B., Brooklyn, 1953
Bercovici, George — New York City
B.A., Arago (France), 1949; B.S., Columbia, 1953
Bertsch, Robert G. — Glasgow, Mont.
A.B., Carleton, 1953

Bettigole, Richard E. New York City
A.B., Yale, 1953
Bilbao, Marcia Kepler Rochester, Minn.
B.S., Minnesota, 1952
Bockol, Joel M. Philadelphia, Pa.
B.S., Haverford, 1953
Boname, John R. Rye, N.Y.
A.B., Yale, 1953
Bono, Vincent H., Jr. Brooklyn, N.Y.
A.B., Columbia, 1953
Boulay, Roger J. Fall River, Mass.
B.S., Tufts, 1950
Breen, Francis J. Woodhaven, N.Y.
A.B., Columbia, 1953
Brown, Gordon E. East Grand Rapids, Mich.
A.B., Kenyon, 1953
Bryson, Michael F. Tenafly, N.J.
A.B., Cornell, 1953
Buchwald, Henry New York City
A.B., Columbia, 1954
Bucknam, Charles A. Waterville, Me.
B.S., Bates, 1953
Burkhart, Charles B. Woodsfield, Ohio
A.B., Yale, 1953
Chandler, Stephen V. Hackensack, N.J.
A.B., Harvard, 1953
Danielski, Edward F., Jr. Greenfield, Mass.
A.B., Harvard, 1953
Davis, John S., Jr. Haddonfield, N.J.
A.B., Princeton, 1953
Deaton, Hugo L. Baltimore, Md.
B.S., Haverford, 1953
Dede, Anthony Brooklyn, N.Y.
A.B., New York University, 1953
Drake, George H., Jr. Maplewood, N.J.
A.B., Lafayette, 1953
Ertel, Norman H. Brooklyn, N.Y.
A.B., Harvard, 1953
Faverio, Charles D., Jr. Jackson Heights, N.Y.
B.S., Manhattan, 1953
Finke, Stanley R. New York City
Freeman, Richard G. White Plains, N.Y.
A.B., Yale, 1953
Gerber, Donald A. Brooklyn, N.Y.
A.B., Columbia, 1953
Grossman, Robert G. New York City
A.B., Swarthmore, 1953
Gutmann, Alice New York City
A.B., Wellesley, 1952
Hammer, Earle I. Utica, N.Y.
A.B., Michigan, 1953
Harter, Donald H. Kew Gardens, N.Y.
A.B., Pennsylvania, 1953
Hermann, John S. Brooklyn, N.Y.
A.B., Harvard, 1953
Hinds, Manuel J. A. New York City
B.S., Fordham, 1953
Hirsh, Charles H. Brooklyn, N.Y.
A.B., Brown, 1953
Horowitz, Iona B. Brooklyn, N.Y.
A.B., Vassar, 1953
Hyde, Richard W. Bedford, N.Y.
A.B., Yale, 1953
Jackman, Allan E. Brooklyn, N.Y.
A.B., Columbia, 1953
Javid, Jamshid Fort Lee, N.J.
B.S., College of the City of New York, 1953
Jewett, Frank S. Southport, Conn.
A.B., Yale, 1953
Johnson, Mayo New York City
A.B., Dartmouth, 1953
Jordan, Ruth A. New Castle, Ind.
A.B., Indiana, 1950
Kelly, Eugene R. Peekskill, N.Y.
A.B., Dartmouth, 1950; A.M., Pennsylvania, 1952
Kennedy, Paul A. Tenafly, N.J.
A.B., Holy Cross, 1953
Kessler, Susan R. New York City
A.B., Vassar, 1953
Kimberg, Daniel V. New York City
A.B., Washington and Jefferson, 1953
Koff, Arnold M. Brooklyn, N.Y.
A.B., Adelphi, 1953
Kogel, Isobel T. Forest Hills, N.Y.
A.B., Vassar, 1953
Kwit, Robert B. Bronx, N.Y.
A.B., Harvard, 1953
Lafer, Charlotte Ziskind Glens Falls, N.Y.
A.B., Rochester, 1953
Lafer, Dennis J. Maplewood, N.J.
B.S., Haverford, 1953
Lazor, Michael Z. Tarrytown, N.Y.
A.B., Williams, 1953
Leach, Robert E. New York City
A.B., Princeton, 1953
Lerner, Burton A. New York City
A.B., Columbia, 1953
Linsky, Ronald M. Kew Gardens, N.Y.
A.B., Columbia, 1953
Lyle, Carl B., Jr. Rogersville, Tenn.
A.B., Princeton, 1953
McDonagh, Thomas J. New York City
B.S., College of the City of New York, 1953
Mancusi-Ungaro, Pier L. Newark, N.J.
A.B., Princeton, 1953
Mason, James L. El Paso, Tex.
A.B., Yale, 1952
Metzger, Henry New York City
A.B., Rochester, 1953
Mooney, Vert Pittsburgh, Pa.
A.B., Princeton, 1953
Mooring, Paul K. Tarzana, Calif.
Mutter, Raymond D. Chatham, N.J.
B.S., Bates, 1953
Nicholson, Denis F. New York City
A.B., Columbia, 1953
Nydick, Martin Brooklyn, N.Y.
A.B., Hobart, 1953
Ormsby, John W. Fayetteville, N.C.
B.S., Davidson, 1953
Osborne, Alan W. Summit, N.J.
A.B., Princeton, 1953
Page, Lyman A. West Hartford, Conn.
A.B., Yale, 1953
Piotrowski, Stanley F. Philadelphia, Pa.
A.B., Columbia, 1953
Platt, Joan M. New Canaan, Conn.
A.B., George Washington, 1948; A.M., Bryn Mawr, 1950
Pollack, Simeon New York City
A.B., Columbia, 1954
Post, Stephen L. St. Louis, Mo.
A.B., Princeton, 1950
Rathe, John C. Waverly, Iowa
A.B., Carleton, 1953
Raymond, Samuel New York City
A.B., Swarthmore, 1941; Ph.D., Pennsylvania, 1945
Reilly, Robert J. Brooklyn, N.Y.
B.S., Fordham, 1953

Rhangos, William C. Lowell, Mass.
A.B., Yale, 1953
Richardson, John W. Oklahoma City, Okla.
A.B., Yale, 1953
Richey, Katherine E. New York City
A.B., Vassar, 1945; A.M., Columbia, 1948
Roberts, Clifford E., Jr. Seneca, Md.
A.B., Haverford, 1953
Roberts, John M. Hamden, Conn.
A.B., Yale, 1953
Robinson, Dwight R. Mendham, N.J.
A.B., Cornell, 1953
Roven, Robert B. Mahopac, N.Y.
A.B., Columbia, 1953
Saunders, Bartlett M. New York City
A.B., Columbia, 1953
Sciarra, John J. West Haven, Conn.
B.S., Yale, 1953
Seiden, Ruth E. Jamaica, N.Y.
A.B., Wellesley, 1953
Shields, Charles E. Silver Springs, Md.
A.B., Yale, 1953
Stites, Temple B. Louisville, Ky.
A.B., Williams, 1953
[1]Strauss, Arthur Joseph Louis Brooklyn, N.Y.
A.B., Brooklyn, 1953
Strauss, Eric Flushing, N.Y.
A.B., Yale, 1953
Tenduf La, Tenki Sangmu Darjeeling, India
B.S., Calcutta, 1951
Theobald, Thomas J. Port Washington, N.Y.
B.S., Fordham, 1953
Tignor, Sterling P. Washington, D.C.
B.S., Yale, 1953
Traeger, Donald M. Brooklyn, N.Y.
A.B., Princeton, 1953
[1]Unger, Harlow G. New York City
A.B., Yale, 1953
Visokay, Charles F., Jr. Bridgeport, Conn.
B.S., Yale, 1951
Vorhaus, Elaine F. New York City
A.B., Barnard, 1953
Wallace, Robert B. Washington, D.C.
A.B., Columbia, 1953
Walzer, Robert S. Brooklyn, N.Y.
A.B., Columbia, 1953
Weiner, Robert M. Swampscott, Mass.
A.B., Harvard, 1953
Weser, Elliot New York City
A.B., Columbia, 1953
Wharton, Ralph N. Brookline, Mass.
A.B., Harvard, 1953
Wheeler, William M. Chestnut Hill, Mass.
A.B., Harvard, 1953
Wilcox, Donald F. Greenfield, Mass.
A.B., Yale, 1953
Wilson, Peter G. New York City
A.B., Columbia, 1953
Wohl, Martin J. Brooklyn, N.Y.
A.B., Harvard, 1953
Zarem, Harvey A. Savannah, Ga.
A.B., Yale, 1953
Zuckerman, Frederick New York City

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FIRST-YEAR CLASS—CLASS OF JUNE, 1958

Allen, John Lawrence Summit, N.J.
B.S., Massachusetts Institute of Technology, 1954
Ames, Richard Pollard Northampton, Mass.
A.B., Williams, 1954
Arida, Edward Juad Brooklyn, N.Y.
A.B., Colgate, 1954
Aron, Alan Milford White Plains, N.Y.
B.S., Tufts, 1954
Ashworth, John Sheriden Richmond, Va.
A.B., Princeton, 1954
Atwood, William Goodson, Jr. Carrollton, Mo.
A.B., Harvard, 1954
Barondes, Samuel Herbert Brooklyn, N.Y.
A.B., Columbia, 1954
Barth, Donald Edward New York City
A.B., Columbia, 1954
Barzel, Uriel Shimon Haifa, Israel
A.M., Hebrew University, 1951; B.S., Columbia, 1954
Beck, Mary Ellen Cleveland, Ohio
A.B., Radcliffe, 1954
Birkeland, Evelyn Sylvia Seattle, Wash.
A.B., University of Washington, 1953
Blahut, Robert Joseph Dunellen, N.J.
A.B., Princeton, 1954
Boies, Lawrence Randall, Jr. Hopkins, Minn.
A.B., Harvard, 1954
Brackett, John William, Jr. Concord, N.H.
A.B., Columbia, 1954
Brander, Jerome Henry Cedarhurst, N.Y.
A.B., Columbia, 1954
Bransome, Edwin Dagobert, Jr. Rumson, N.J.
A.B., Yale, 1954
Brenner, Richard Wolff Jersey City, N.J.
A.B., Princeton, 1954
Britten, John Sidney New York City
B.S., Yale, 1954
Brown, James Ballantine New York City
B.S., Rutgers, 1953
Burger, Karl Brooklyn, N.Y.
A.B., Columbia, 1954
Campbell, Robert Goetze New Canaan, Conn.
A.B., Colgate, 1954
Carson, David Henry Old Brookville, N.Y.
A.B., Virginia Military Institute, 1954
Cherry, Sheldon Harold Brooklyn, N.Y.
A.B., Columbia, 1954
Clift, George Vincent Lake Peekskill, N.Y.
B.S., St. Lawrence University, 1954
Collins, Daniel Joseph, Jr. Haverhill, Mass.
A.B., Harvard, 1954
Cooper, Herbert L. Far Rockaway, N.Y.
Crago, Harry Robert, Jr. Schenectady, N.Y.
A.B., Princeton, 1954
Dale, Richard Columbus, Ohio
A.B., Bowdoin, 1954
DeBellis, Robert H. Great Neck, N.Y.
B.S., Queens, 1951
Delany, Harry M. New York City
A.B., Columbia, 1954
Dennis, Brown W. Macon, Ga.
B.S., Davidson, 1954
Dodd, J. William Freeport, N.Y.
A.B., Colgate, 1953
Dougan, Jerome Wayne Western Springs, Ill.
A.B., Yale, 1954
Dulany, Virginia Ann Fruitland, Md.
A.B., Bryn Mawr, 1954
Edelman, Frederic Lewis Brooklyn, N.Y.
A.B., Princeton, 1954
Edelman, Werner Joseph West Englewood, N.J.
A.B., Fordham, 1954
Epstein, Jules New York City
A.B., Columbia, 1954

[1] Withdrew.

Finkelstein, James D. Rockville Centre, N.Y.
A.B., Harvard, 1954
Forde, Kenneth A. New York City
B.S., College of the City of New York, 1954
Forland, Marvin Irvington, N.J.
A.B., Colgate, 1954
Friendly, David Stern New York City
A.B., Carleton, 1954
Galton, Barry B. New York City
A.B., Yale, 1954
Gaynor, Evelyn New York City
A.B., Hunter, 1952
Gilbert, Arnold New York City
A.B., Harvard, 1954
Goldman, William Herman Brooklyn, N.Y.
B.S., Tufts, 1954
Gottlieb, Arlan Jay New York City
A.B., Columbia, 1954
Green, Lawrence Perry, Jr. Houghton, N.Y.
A.B., Houghton, 1954
Gresham, Glen Edward Bethany, W. Va.
A.B., Harvard, 1953
Grimm, Robert Dean New York City
A.B., Dartmouth, 1942
Hall, Ronald Milton New York City
A.B., Columbia, 1950
Hardy, James H., III Havertown, Pa.
A.B., Harvard, 1952
Harris, Paul Donald West Englewood, N.J.
A.B., Princeton, 1954
Harris, Peyton R., Jr. New York City
A.B., Harvard, 1953
Hitchcock, John Los Angeles, Calif.
A.B., Hamilton, 1954
Hnat, Richard Frederick Elizabeth, N.J.
A.B., Princeton, 1954
Hofreuter, Don Henry Wheeling, W. Va.
A.B., Princeton, 1954
Hopewell, William Scott Cincinnati, Ohio
A.B., Yale, 1954
Horwitz, Bert Stuart Brooklyn, N.Y.
A.B., Columbia, 1954
Hunt, Winslow Robert Detroit, Mich.
A.B., Chicago, 1946; A.M., 1950
Izard, Mark Whitaker New York City
A.B., Columbia, 1954
Jewell, James Hyland, Jr. Pittsburgh, Pa.
A.B., Lehigh, 1954
Johnson, Theodore Herbert New Britain, Conn.
A.B., Harvard, 1954
Jurkowitz, Lawrence College Point, N.Y.
A.B., Harvard, 1953
Justice, James William Clinton, Tenn.
A.B., Yale, 1954
Kaiser, Gerard Alan Brooklyn, N.Y.
A.B., Princeton, 1954
Kane, William James Brooklyn, N.Y.
A.B., Holy Cross, 1954
Kantor, Joseph Yonkers, N.Y.
A.B., Columbia, 1954
Kantrowitz, Paul Alan Brooklyn, N.Y.
A.B., Swarthmore, 1954
Kaplan, Norman Lionel New York City
A.B., Wesleyan, 1954
Kazemi, Homayoun Teheran, Iran
A.B., Lafayette, 1954
Kim, Byong Mok Glendora, Calif.
A.B., California, 1953
Korenman, Stanley George Brooklyn, N.Y.
A.B., Princeton, 1954
Landau, Benjamin Barry Stamford, Conn.
A.B., Yale, 1954
Lazerson, Alan Martin Rochester, N.Y.
A.B., Rochester, 1954
Leland, Oliver Stevens, Jr. West Newton, Mass.
A.B., Harvard, 1954
Lindberg, Donald A. B. Brooklyn, N.Y.
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Malawista, Stephen Evan Pound Ridge, N.Y.
A.B., Harvard, 1954
Marx, Marvin Henry Sappington, Mo.
A.B., Princeton, 1954
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A.B., Princeton, 1954
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Morris, Thomas Quinlan Yonkers, N.Y.
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A.B., Columbia, 1954
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A.B., Columbia, 1954
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A.B., Columbia, 1954
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A.B., Yale, 1954

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A.B., Oberlin, 1954
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B.S., Union College, 1954
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A.B., Princeton, 1954
Weir, William Strickland — Louisville, Ky.
A.B., Louisville, 1954
Weiss, Carl Austin — New York City
A.B., Holy Cross, 1954
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A.B., Princeton, 1951
Wilcke, John Alan — New York City
A.B., Columbia, 1954
Zeidenberg, Phillip — Brooklyn, N.Y.
A.B., Harvard, 1954

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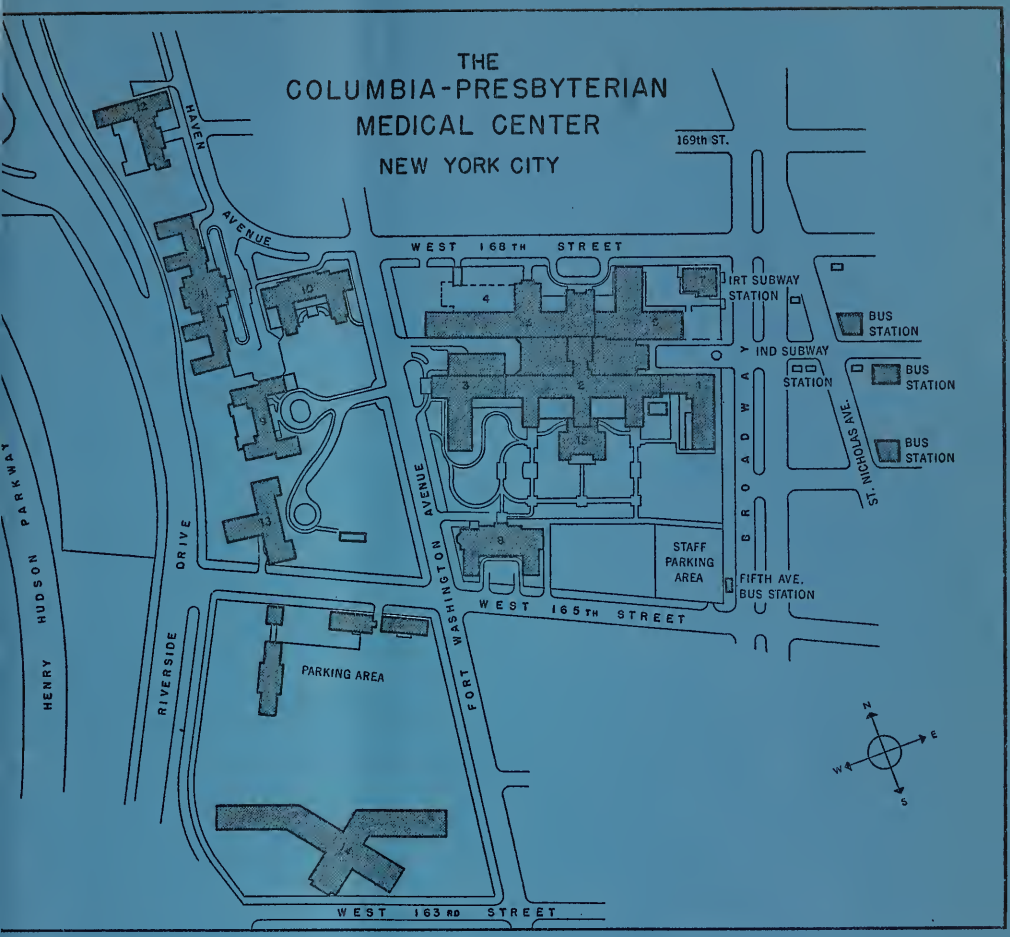

1. BABIES HOSPITAL
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12. BARD HALL
13. HARKNESS MEMORIAL HALL
14. FRANCIS DELAFIELD HOSPITAL, N.Y.C.
15. PAULINE A. HARTFORD MEMORIAL CHAPEL

C2

COLUMBIA UNIVERSITY
Bulletin of Information SERIES FIFTY-SIX
NUMBER THIRTY-SEVEN · SEPTEMBER 15, 1956

ANNOUNCEMENT OF THE

College of Physicians and Surgeons

OF THE FACULTY OF MEDICINE

1956-1957

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET · NEW YORK 32 · NEW YORK

Columbia University Bulletin of Information

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The series includes the report of the President to the Trustees and the announcements of the several colleges and schools relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these announcements will be sent upon written application to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N.Y. Copies may be obtained in person from the Office of the Secretary, 213 Low Memorial Library.

C.U.P. 9,000—1956

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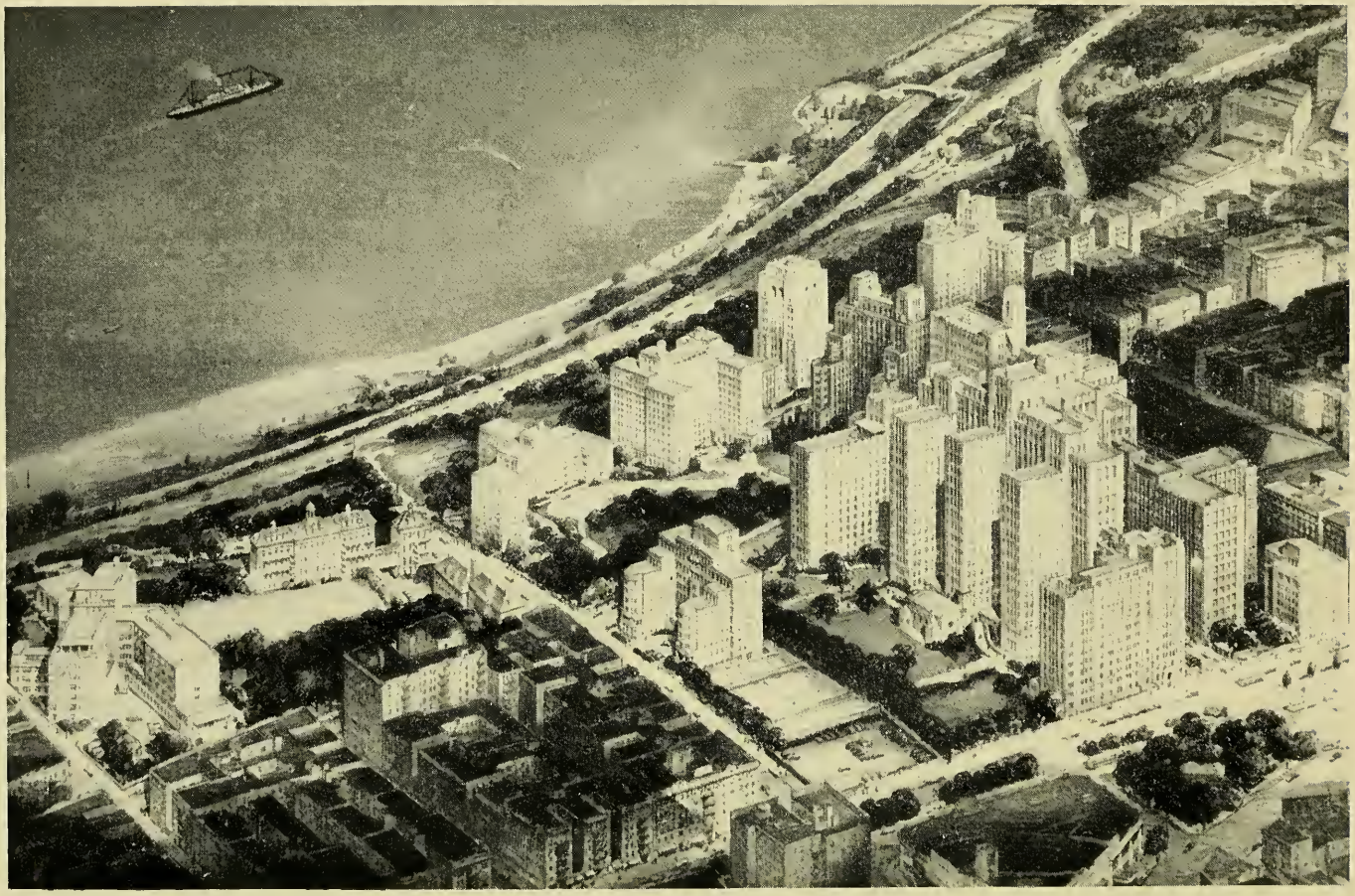
View of Bard Hall from Riverside Drive



Columbia-Presbyterian Medical Center

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THE SCHOOL OF MEDICINE

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine in course. The first individuals to graduate in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May, 1769, and that of Doctor of Medicine in May, 1770, and May, 1771, respectively. Instruction in medicine was given until the War of the Revolution. In 1784 instruction was resumed in the academic department. Eight years later the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College, as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the College was incorporated as an integral part of the University. Since September, 1917, women have been admitted to the School on the same basis as men. In 1945 the medical faculty was made responsible for the educational programs in Medicine, Dental and Oral Surgery, Public Health, and Nursing.

The School of Medicine as a part of the Medical Center occupies a site on West 168th Street between Broadway and Fort Washington Avenue. It is housed in a seventeen-story, fire-resisting, steel, brick, and concrete building, each floor connecting with the wards and services of Presbyterian Hospital.

SCHOOL OF DENTAL AND ORAL SURGERY

The School of Dental and Oral Surgery became a part of the Faculty of Medicine on July 1, 1945.

The course in dentistry covers four academic years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of the College of Physicians and Surgeons.

For information regarding this course of study apply to the Office of the Associate Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

SCHOOL OF PUBLIC HEALTH AND ADMINISTRATIVE MEDICINE

The School of Public Health and Administrative Medicine is an integral part of the medical faculty of Columbia University. The staff provides both graduate and undergraduate instruction and research opportunities in preventive medicine and community organization for health services of all types.

DEPARTMENT OF NURSING

The establishment in 1937 of the Department of Nursing of the Faculty of Medicine marked another step in the close cooperation between Presbyterian Hospital and Colum-

bia University in the education of personnel for the medical and allied professions. The Board of Trustees of the Presbyterian Hospital has considered the education of nurses one of its primary responsibilities since 1892, when the School of Nursing was founded under the direction of Anna C. Maxwell.

The basic course in nursing is an integral part of a larger educational program designed not only as a sound preparation for the usual practice of bedside nursing, but also as a foundation for further education in the fields of public health nursing, school and industrial nursing, nursing school administration, and other phases of nursing practice and education.

PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

The Faculty of Medicine offers a program of study leading to a Bachelor of Science degree in physical therapy and in occupational therapy or, for those who already have a Bachelor's degree, a Certificate of Proficiency in Physical Therapy or in Occupational Therapy.

Information regarding courses may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y.

ANNOUNCEMENTS

The announcements of the above schools and of the other colleges and schools of the University and of the Summer Session may be obtained without charge by writing to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N.Y.

Letters requesting further information than is contained in this announcement, and all correspondence regarding admission, should be addressed to the Dean of the Faculty of Medicine, 630 West 168th Street, New York 32, N.Y.

For information pertaining to the staffs of hospitals at the Columbia-Presbyterian Medical Center and other hospitals affiliated for teaching purposes, described on pages 6 to 8, see the annual publications of these institutions.

THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER

A permanent affiliation between Columbia University and Presbyterian Hospital was established in 1921. The College of Physicians and Surgeons of Columbia University in conjunction with Presbyterian Hospital and several other institutions comprising the Medical Center now occupy a plot of land given to Columbia University and Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. The land, extending from West 165th Street to West 168th Street and from Broadway to Riverside Park, comprises about twenty acres and is readily accessible from all parts of the city.

The Medical Center was opened in the spring of 1928. The Medical Center group consists of the following units: the College of Physicians and Surgeons, School of Dental and Oral Surgery, Department of Nursing, School of Public Health and Administrative Medicine, Washington Heights Health and Teaching Center, New York State Psychiatric Institute, the Francis Delafield Hospital; the Presbyterian Hospital and its subdivisions: the Squier Urological Clinic, the Institute of Ophthalmology, Harkness Pavilion, Sloane Hospital for Women, Vanderbilt Clinic, Babies Hospital, Neurological Institute, the New York Orthopaedic Hospital, and the Mary Harkness Convalescent Home. See the map of the Medical Center on the back cover of this bulletin.

Presbyterian Hospital was founded in 1868. The hospital occupies a twenty-two-story building in which are the wards of the medical and surgical services, the Sloane Hospital for Women, and the Squier Urological Clinic. To provide for personal contact between doctor and patient, the hospital is divided into floor units of between sixty and seventy beds. Harkness Pavilion for private patients is connected with the main building. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the Hospital on nomination by the Trustees of the University. There are about 435 (Sloane, Squier, Presbyterian) teaching beds.

Squier Urological Clinic occupies the tenth floor of the Presbyterian Hospital building and the tenth floor of Babies Hospital. There are sixty-seven beds for the care of adults and nineteen beds for babies and children. There are laboratories fully equipped to do diagnostic, X-ray, microbiological, pathological, fluoroscopic, and research work. The clinic has two large, especially equipped operating rooms. The urological outpatient department, situated in Vanderbilt Clinic, is fully equipped for cystoscopic, X-ray, and laboratory work.

The Institute of Ophthalmology was made possible by the generosity of Edward S. Harkness. The hospital and laboratories for the study of diseases of the eye are active in the training of physicians and nurses. The hospital contains thirty-seven ward beds.

Harkness Pavilion, which contains 294 beds, is available for the accommodation of private patients of the attending staff.

Sloane Hospital for Women, originally at West 59th Street and Amsterdam Avenue, was presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now occupies three floors of the Presbyterian Hospital building for ward and semiprivate patients and two floors in Harkness Pavilion for private patients. The wards of the hospital furnish 116 beds for obstetrical and gynecological patients. Patients, other than emergencies, are admitted to the hospital through Vanderbilt Clinic. The deliveries in the hospital number about thirty-five hundred a year.

Vanderbilt Clinic, presented by the Vanderbilt family to Columbia University in 1888, is the outpatient department common to all the hospitals in the Medical Center. It is a fully equipped dispensary for the sick poor. The professors of the Medical School, with their assistants, have charge of its professional services. The building is so arranged that

each department has rooms for practical instruction in small sections. All modern appliances for the treatment of disease are available, so that the students can learn thoroughly the use of all methods in each of the special departments of medicine. A Group Practice Clinic, which was organized in Vanderbilt Clinic in 1946, has proved to be a forward step in the treatment of patients as well as of great value in the teaching of fourth-year medical students.

Babies Hospital provides for general medical and surgical care of infants and children up to and including twelve years of age. One floor of the hospital is devoted to the care of private and semiprivate patients. Three floors are equipped with laboratories. Both outdoor and indoor playrooms are provided for convalescent children. The total capacity of the hospital is 192 beds. Laboratories are operated for the routine and research work of the hospital in pathology, microbiology, and chemistry. An outpatient department is maintained in Vanderbilt Clinic by the visiting and house staff of the hospital. In addition to the general medical and surgical clinics, there are special clinics for the care of premature infants and for patients suffering from heart disease, tuberculosis, epilepsy, asthma, and other diseases.

Neurological Institute, one of the first nongovernmental hospitals in this country for the treatment of nervous diseases, was founded in 1909. The original building at 149 East 67th Street was occupied continuously up to March, 1929, when the Institute was moved to the Medical Center. This has made possible the development of a broad basic program of teaching and research in neurology and in the treatment of the sick in the affiliated units of the Medical Center. The present hospital has 110 ward beds and is devoted exclusively to the treatment of diseases of the nervous system and surgical conditions of the brain and nervous system. Facilities are provided for bedside teaching in the wards for both undergraduate and graduate students.

New York Orthopaedic Hospital, established in 1868, was consolidated with the Presbyterian Hospital in 1945. It was moved to the Columbia-Presbyterian Medical Center in December, 1950, and is now an integral part of the Presbyterian Hospital and the Medical School. It has sixty-seven ward beds. Facilities are available for the care and treatment of orthopedic conditions and fractures in children and adults. Teaching laboratories are provided in the Medical School.

New York State Psychiatric Institute is a 168-bed hospital built and maintained by the state of New York, with provisions for the study and treatment of all types of psychiatric disorders. There are special facilities for the treatment of children presenting behavior and personality problems. Connected with the hospital is an active outpatient department providing diagnostic and treatment facilities. The hospital maintains special clinical and research laboratories and an extensive psychiatric library. The members of the hospital staff have teaching appointments in the Department of Psychiatry and take an active part in the instruction of the medical students.

Francis Delafield Hospital, built and maintained by the city of New York, is a 300-bed hospital for the treatment and study of cancer. A program of research and of graduate and undergraduate instruction in the malignant diseases is conducted here under the terms of an agreement with the city of New York whereby Columbia University nominates the entire professional staff. The hospital is equipped with three floors of laboratories for research and has a modern outpatient department and up-to-date facilities for all methods of study and treatment of cancer.

OTHER HOSPITALS USED FOR TEACHING

Bellevue Hospital, a unit of the New York City Department of Hospitals, was founded in 1736 as a "Publick Workhouse and House of Correction of the City of New York,"

and received its present name in 1816. It has 2,779 beds used for the treatment of acute diseases. One of its four divisions has been utilized for instruction by the Faculty of the College of Physicians and Surgeons for over one hundred years. The staff of the service is appointed by the Commissioner of Hospitals on the nomination of Columbia University. During the fourth year, clinical clerkships are provided in general medicine, general surgery, and tuberculosis. A unit of 316 beds for chest diseases under the Columbia division provides the most up-to-date equipment and facilities for diagnosis and therapy in tuberculosis and other pulmonary disorders.

Goldwater Memorial Hospital in the Department of Hospitals of New York City was opened on Welfare Island in 1939 to fill the need for intensive research in chronic diseases and to establish adequate facilities for the care of the chronically ill. It contains 1,380 beds. The First Division of the hospital, which is under the auspices of Columbia University, contains 100 research beds and is used for instruction of undergraduate and postgraduate students in the problems of chronic disease.

Hospital for Joint Diseases, established in 1905 as a hospital for deformities and joint diseases, accommodates 280 patients, including 60 in the Country Home at Far Rockaway.

Institute for the Crippled and Disabled, founded in May, 1917, was the first modern rehabilitation center established in the United States. The program of rehabilitation at the Institute is integrated with the orthopedic, medical, and other professional activities of the Medical Center through the Department of Physical Medicine and Rehabilitation of the University and a corresponding service in Presbyterian Hospital.

Margaret Hague Maternity Hospital, a unit of the Jersey City Medical Center, has a capacity of 345 teaching beds. An affiliation with Columbia University was arranged in 1935 for postgraduate instruction in obstetrics.

Mary Imogene Bassett Hospital in Cooperstown, New York, is affiliated with the University for the teaching of medicine and surgery. It has 112 beds.

Montefiore Hospital for Chronic Diseases, founded in 1884, has a capacity of 865 beds devoted to the treatment of chronic diseases. The neurological division of 160 beds is used for undergraduate instruction. Short courses for graduates are given annually in collaboration with Columbia University.

Mount Sinai Hospital, organized in 1852, accommodates 1,002 patients. Since 1923 the hospital has been affiliated with Columbia University for postgraduate instruction, particularly for physicians in general practice and for elective undergraduate work in pediatrics and obstetrics. There are 432 beds available for teaching purposes.

Roosevelt Hospital, established in 1864, is a general hospital containing 401 beds. Its facilities are used in the teaching of medicine and surgery to undergraduate and postgraduate students.

St. Luke's Hospital, established in 1850, contains 538 beds, including 80 beds for infants and children. It is affiliated with the University for the teaching of undergraduates, and all services participate in the program of graduate medical education.

Woman's Hospital, founded in 1855, was the first institution established by women "for the treatment of diseases peculiar to women and for the maintenance of a Lying-In Hospital." It has 192 beds. In 1937 an affiliation was arranged with Columbia University to participate in the program of training specialists in obstetrics and gynecology.

LIBRARY

The Medical Library occupies parts of the three lower floors in the College of Physicians and Surgeons. It provides current literature (both books and journals) for faculty

and students, and it aids in research through its own collections of current and historical works, through interlibrary loans, and through its unique bibliographic service.

The Library contains approximately two hundred thousand volumes of books and journals, some five thousand pamphlets, and about two thousand lantern slides on the history of medicine. More than twenty-three hundred periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the schools of Medicine, Dentistry, Nursing, and Public Health and Administrative Medicine, and in the hospitals of the Medical Center.

The libraries on Morningside Heights, containing more than two million volumes, are open to all students of medicine. They include collections on biology, chemistry, physics, psychology, sociology, and other subjects related to medicine and supplement the special collections available in the Medical Library. Books may be borrowed for home use.

The Medical Library is open Monday through Friday, 8:30 A.M. to 10 P.M.; Saturday, 9 A.M. to 6 P.M.; and Sunday, 12 M. to 5 P.M. during the academic year. (The schedule is modified slightly in the summer.)

BARD HALL

Bard Hall, the residence for students of the Medical School, is located on property of the Medical Center at 50 Haven Avenue. It is eleven stories high with three additional stories in the north wing and occupies a site overlooking Riverside Park and the Hudson River. The facilities of the Hall include lounging rooms, a dining room, a cafeteria and grillroom, a gymnasium, squash courts, and a swimming pool.

The first, second, and third floors are arranged to accommodate women students.

Rates for accommodations range from $204 to $471 for the academic year of thirty-eight weeks. First- and second-year medical student residents subscribe to a five-day-per-week, fifteen-meal prepaid board plan. The present rate is $350 for the academic year, exclusive of the Christmas and Easter holiday periods. In case of marked increase in operating costs, all rates are subject to change. Room application blanks and further information concerning rates will be furnished on request by the Bard Hall Office, 50 Haven Avenue, New York 32, N.Y.

ADMISSION, REGISTRATION, AND EXPENSES

ADMISSION TO THE FIRST YEAR

Entering classes will be enrolled in the Medical School once each year in September and will complete the prescribed course in four years. The entering class will register September 13–15, 1956. Application for admission can be made for the next incoming class only, and requests for application forms should be addressed to the Dean. Every application should be accompanied by a check or money order for $5.00, payable to Columbia University, to cover the cost of processing the application. The fee is not returnable.

The Committee on Admissions devotes months to the task of selecting a class of one hundred and twenty from a very large number of applicants. Obviously there will be many well-qualified students whom the School will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation and to the world as well, and welcomes qualified candidates from widely distributed geographical areas, provided they meet the standards of admission.

The minimum requirement for admission to the first-year class is attendance for three full academic years at an approved college of arts and sciences, although most applicants present four academic years and a baccalaureate degree. The Committee on Admissions gives priority to the more advanced students.

The liberal arts program must include English, physics, and biology, covering at least one academic year each, and courses in chemistry covering at least one and a half academic years, including a course in organic chemistry. The student may concentrate on the subject of his choice, whether in the natural sciences, social sciences, humanities, or arts, but evidence of a balanced education, rather than a preparation limited largely to the natural sciences, is preferred.

The Committee places great importance on the fact that the student has learned to think for himself, to explore, to work hard under his own initiative, to face alternatives and make decisions, and has developed a desire for a continuous program of self-education. Preference is given in the selection of students to those who have shown, in the opinion of the Committee on Admissions, high achievement in their college education, a mature sense of values and sound motivation, qualities of leadership, willingness and ability to assume responsibility, and who, therefore, have already given evidence that they are likely to become ethical, well-trained, and competent physicians.

The practice of medicine is both a science and an art, and to treat the patient as a whole man, the doctor must be a whole man himself. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education.

If a personal interview is required in connection with the application, it will be requested by the Dean's office.

ADMISSION TO ADVANCED STANDING

Only a limited number of vacancies occur during the medical course, and students can be accepted on transfer from other schools only when such vacancies do occur. Any student desiring to transfer to the upper classes of the School should communicate with the Dean to learn if vacancies exist.

ADMISSION OF FOREIGN STUDENTS

The State Department of Education has special requirements with which students who are not citizens of this country must comply. Any foreign student desiring to apply to the Medical School should communicate with the Dean.

MASTER OF ARTS AND DOCTOR OF PHILOSOPHY

A limited number of properly qualified students may be accepted by the departments of basic science in the Medical School as graduate students and as candidates for the degrees of Master of Arts and Doctor of Philosophy.

In addition to the general faculty requirements described in the announcement of the Faculty of Pure Science, there are various supplementary departmental requirements. Students are therefore advised to consult with, and be approved by, the executive officer of the department in which they wish to enroll before attempting certification.

GRADUATE INSTRUCTION

A graduate student who desires to engage in special clinical or investigative work under the direction of a department may, with the approval of the Dean, register for this purpose for any period of the calendar year. The University fee for each such period not longer than a winter or spring session is $50.

REGISTRATION

Before attending courses every student must present himself at the Office of the Registrar, file a registration blank giving such information as may be required, and pay his fees. The office is situated on the second floor of the College of Physicians and Surgeons, 630 West 168th Street, and is open from 9 A.M. to 5 P.M. daily except Saturdays and holidays, and on Saturday from 9 A.M. to 12 M. The periods set aside for registration in each session are stated in the Academic Calendar. Registration at a later date is permitted only with the written consent of the Dean.

FEES

The University statutes provide that tuition fees and the University fee are payable semiannually in advance (see the Academic Calendar). As stated above, payment of fees is the last step in the registration procedure; checks should be drawn to the order of Columbia University.

No reduction is made for late registration. If fees are paid after the last day of registration, a statutory charge of $3.00 is automatically imposed. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The following annual fees, prescribed by statute for medical students, are subject to change at any time at the discretion of the Trustees:

University fee	
For all students for one academic year, payable in two installments	$ 48.00
Tuition fee	
For the full course in medicine for one academic year (or equivalent), payable in two installments	900.00

Tuition fee (*cont.*)

For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University statutes.

Medical school athletic and recreational fee

This fee entitles students to use without charge the athletic and recreational facilities of Bard Hall, the residence for medical students. For all students, per academic year, payable in two installments $10.00

Student health and hospital fee

This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance (unless a student already has hospital insurance) and to pay part of the cost of the student health service. For all students, per academic year 25.00

Application fees

For processing application for admission	5.00
For each deficiency or special examination	10.00
For renewal of application for a degree*	1.00

Late fees

For late registration	3.00
For late application for each deficiency or special examination	5.00
For late application, or renewal of application, for a degree	5.00

Rebates

The University fee, the student health and hospital fee, application fees, and late fees are not subject to rebate. If a student withdraws from the School, a partial return of the tuition fee may be authorized by the Registrar. When a rebate is allowed, it will be reckoned from the day upon which the Registrar receives written notice from the student.

Undue breakage

While no deposit is required of students to cover laboratory material and ordinary breakage, any unusual amount of breakage will be charged.

Acceptance fee. A student who has been notified that his application has been accepted should reply as early as possible stating whether or not he intends to matriculate. He may send with his letter of acceptance a check or money order for $50 payable to Columbia University to insure his place in the class. If accepted before January 1, he may request a postponement of payment of the acceptance fee until January 15. If accepted after January 1, he must notify the Dean and send his $50 acceptance fee within two weeks after he has received his letter of acceptance. This acceptance fee will be retained by the University. If the applicant does not register for the courses for the following academic year, it will not be returned, unless the University for any reason cancels the acceptance. If applicant registers at the School in the class to which he has been admitted, the amount of the acceptance fee will be credited to his tuition fees.

Microscopes. All students entering the College of Physicians and Surgeons are required to provide themselves with microscopes of a satisfactory type. See page 51 for description and cost.

* An application for a degree, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the faculty it may be subject to renewal for a fee of $1.00 each time that a candidate chooses to come up for consideration.

ESTIMATED EXPENSES FOR THE ACADEMIC YEAR

The following is an estimate of expenses of attendance at the College of Physicians and Surgeons for an academic year:

	Average	*Minimum*
Tuition and fees	$ 983	$ 983
Room	330	186
Board	600	500
Books and instruments*	200	150
Laundry	100	35
Personal expenses	350	250
TOTAL	$2,563	$2,104

* For the list of required and recommended textbooks and equipment, see pages 49-51 below.

FELLOWSHIPS, SCHOLARSHIPS AND PRIZES

FELLOWSHIPS

Bache. The Jules S. Bache Fellowship in obstetrics and gynecology, founded in 1945 by Mrs. Muriel Richards Pershing and Mrs. Dorothy Richards Hirshon, in memory of their grandfather, Dr. Jules S. Bache, is awarded to one or more graduate or undergraduate physicians who in the judgment of the Professor of Obstetrics and Gynecology are fitted to do special work in the field of obstetrics and gynecology.

Barnes-Foster. The Barnes-Foster Fellowship, established in 1950, is awarded to women graduate students for work in the field of gynecology. The value of the fellowship is about $3,100.

Baruch. The Bernard M. Baruch Fellowship in physical medicine and rehabilitation is awarded annually to two or three graduate physicians for graduate study in the field of physical medicine and rehabilitation. The annual stipend is normally $2,500 from the Bernard M. Baruch Gift to Columbia University.

Beekman. The Gerard Beekman Fellowship, founded in 1940 by The Beekman Family Association, is awarded annually. The value of the fellowship is about $1,500.

Cutting. The William Bayard Cutting Traveling Fellowships, founded in 1913 by Mrs. William Bayard Cutting in memory of her husband, William Bayard Cutting, LL.B., '71, A.M., '72, are awarded annually by the Trustees to men who have been in residence as graduate students and candidates for a higher degree under the Faculties of Political Science, Philosophy, or Pure Science for at least one academic year and to graduates of Columbia University in law, medicine, engineering, architecture, or music who have had at least one year of additional study as graduate students in this University. The normal stipend is $3,000.

Du Bois. The Dr. Abram Du Bois Fellowship, endowed by the two sons and the daughter of Abram Du Bois, M.D., Class of 1835, is open to a graduate of the College of Physicians and Surgeons who has given evidence of his serious intention to follow the subject of diseases of the eye as a specialty or to pursue studies in surgical pathology. The holder will devote his time to clinical and laboratory study of his subject at home or abroad. The value of the fellowship is about $900, the annual income of the fund.

Eckhouse. The Minnie Eckhouse Fellowship in neurological surgery enables the holder to follow the study of neurological surgery after graduation.

Ellis. Three George W. Ellis Fellowships are awarded annually by the University Council to qualified graduates of any of the colleges of recognized rank in the state of Vermont. A holder of the fellowship who is a student in medicine may be eligible for reappointment for not more than three additional years. The value of each fellowship is about $1,500, the annual income of the fund.

Gay. The Frederick Parker Gay Memorial Fellowship for graduate work in bacteriology is awarded annually on the nomination of the Executive Officer of the Department of Microbiology. The value of the fellowship is approximately $2,000.

Gies. The William J. Gies Fellowship is awarded annually on the nomination of the Executive Officer of the Department of Biochemistry. The appointment is made from among students who have prerequisites for admission to graduate study in biochemistry. The value of the fellowship is about $1,800, the annual income of the fund.

Holt. The L. Emmett Holt Fellowship in pediatrics is awarded annually by the University Council to a student of the graduating class of any medical school, or to a graduate of not more than six years' standing, to enable the recipient to study the diseases of children in this country or abroad. The value of the fellowship is about $1,500, the

annual income of the fund. The holder of the fellowship is eligible for the award for a second year, but no person may hold the fellowship for more than two years.

James. The Walter Belknap James Research Fellowship in medicine is awarded annually by the Trustees. It is open to graduates in medicine. The value of the fellowship is about $2,500, the annual income of the fund. The holder of the fellowship must pursue advanced studies in medicine either at Columbia University or elsewhere.

Koplik. The Koplik Children's Scholarship is awarded every second year to the physician, under thirty years of age, who has shown special aptitude for original work in the investigation of the diseases of children. The value of the scholarship is about $1,100, the annual income for two years of the fund.

Lambert. The Samuel W. and Elizabeth W. Lambert Traveling Fellowship, established in 1948, in memory of Samuel W. and Elizabeth W. Lambert, is awarded to a student who plans to specialize in surgery.

Proudfit. The Maria McLean Proudfit Fellowship, endowed by the late Alexander Moncrief Proudfit, A.B., '92, is open to any son of native-born American parents who shall pursue advanced studies in internal medicine and who shall, while enjoying such fellowship, remain unmarried. The appointment is made every four years. The value of the fellowship is about $1,100, the income of the fund which has accrued during four years. It will be awarded next in 1957–1958.

Romaine. The DeWitt C. Romaine Fellowship for medical research in the College of Physicians and Surgeons was established in 1946 by the estate of C. Everetta Romaine.

Ryle. The Dorothy Ryle Research Fellowship for research in neurology was established in 1950 through the gift of Thorneycroft Ryle.

Tilney. The Frederick Tilney Memorial Fund Fellowship, endowed by the Frederick Tilney Memorial Fund, Inc., enables the holder to pursue research projects in the field of neurology as may be recommended from time to time by the Executive Officer of the Department of Neurology in the College of Physicians and Surgeons, the Dean of the College of Physicians and Surgeons, and the President of the Board of Trustees of the Presbyterian Hospital.

Tucker. The Ervin Alden Tucker Fellowship in obstetrics, bequeathed by Mrs. Ervin Alden Tucker, enables the holder to follow the study of obstetrics after graduation. The value of the fellowship is about $2,500, the annual income of the fund.

SCHOLARSHIPS

Scholarship aid is provided in varying amounts depending upon the need of the student. Such assistance is usually awarded only to civilian students who have high academic records and promise.

Applications for scholarships must be made not later than one month before the end of the academic year on blanks which will be furnished on request at the office of the Dean.

Scholarships are tenable for one academic year. Applications must be made in each year for which a scholarship is desired. Scholars will be required to pay the balance of the tuition fees and all the other fees.

Alumni. A limited number of national scholarships are provided by gifts from the P & S Alumni Association and other contributors.

Anonymous. The Anonymous Scholarships are awarded annually to qualified students from the income of a gift from an anonymous donor.

Banbury. The Banbury Scholarship Fund was created in 1955 to provide financial assistance for students enrolled in the College of Physicians and Surgeons.

Blumenthal. The George Blumenthal, Jr., Scholarships are maintained by the income of the George Blumenthal, Jr., Fund.

Butler. The Richard Butler Scholarship, for the benefit of male students born in the state of Ohio, is open for competition to qualified candidates who propose to enter Columbia College, or any one of the Graduate Faculties of Political Science, Philosophy, and Pure Science, or any one of the professional schools of Law, Medicine, and Engineering. The scholarship is tenable for one academic year, with the possibility of renewal for two additional years.

Clark. The Alonzo Clark Scholarship, founded by the will of Alonzo Clark, M.D., LL.D., for many years President of the College of Physicians and Surgeons, is awarded annually.

Class of 1890. The Class of 1890 College of Physicians and Surgeons Scholarship Fund was given by a member of the Class of 1890, the income to be used annually for scholarship purposes.

Class of 1899. The Class of 1899 College of Physicians and Surgeons Scholarship Fund was given by the Class of 1899 in commemoration of the thirty-fifth anniversary of their graduation, the income to provide a resident scholarship awarded annually.

Class of 1912. The Class of 1912 College of Physicians and Surgeons Scholarship Fund was given by the Class of 1912 on the fifteenth anniversary of their graduation, the income to be used annually for scholarship purposes.

Class of 1920. The Class of 1920 College of Physicians and Surgeons Scholarship Fund was given by the Class of 1920 on the twenty-fifth anniversary of their graduation, the income to be awarded annually for scholarship purposes.

Class of 1953. The Class of 1953 College of Physicians and Surgeons Scholarship Fund was given by members of the class, the income to be used annually for scholarship purposes.

Dennett. The Horace Dennett Scholarships are awarded annually to students in the third and fourth years whose records for ability and scholarship give evidence of special fitness and who need financial aid to obtain an education.

Devendorf. The David M. Devendorf Scholarship was given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861. In awarding this scholarship, preference will be given to a qualified candidate from Herkimer County, New York, preferably to a candidate from the town of Herkimer.

Doughty. The Francis E. Doughty Scholarship was given by Miss Phoebe Caroline Swords in memory of Dr. Francis E. Doughty, Class of 1869.

Eichner. The Joseph Herman Eichner and Hannah Eichner Scholarship, founded in 1941 by the will of Benjamin Bernard Eichner, Class of 1919, is awarded annually.

George and Charlie. The George and Charlie Scholarship, created in 1942 in memory of George Peters and Charles Costello by the Alumni Association of the College of Physicians and Surgeons, is awarded annually.

Hanlon. The John F. Hanlon Scholarship, established by members of the Class of 1951 in memory of their classmate, John F. Hanlon, is awarded annually.

Harsen. Five Jacob Harsen Scholarships are awarded annually from the income of a fund established by Jacob Harsen, M.D., in 1859. Two of these scholarships are awarded to students in the second year of the medical course, two to students in the third year, and one to a student in the fourth year.

Hartley. The Frank Hartley Scholarship was established in 1914 by friends and colleagues in memory of Dr. Frank Hartley, Class of 1880.

Hemingway. The William H. Hemingway Scholarships, covering tuition, are awarded annually.

Huber. The Francis Huber Scholarship, provided by the income of a gift from Francis Huber, M.D., is awarded annually to a student from any institution other than Columbia University, the College of the City of New York, Barnard College, or Hunter College.

Huber. The Viola B. Huber Scholarship, provided by the income of a gift from Francis Huber, M.D., is awarded annually to a student from Hunter College.

Jacobi. Four Abraham Jacobi Scholarships are awarded annually from the income of a fund given by Francis Huber, M.D., in memory of Dr. Abraham Jacobi. Two are awarded to students from Columbia University and two others to students from the College of the City of New York.

McAneny. The Marjorie McAneny Scholarship is awarded annually from the income of a fund given by Francis Huber, M.D., to a student from Barnard College.

Markoe. The Francis Hartman Markoe Scholarship, established by Madeline Shelton Markoe in memory of her husband, is awarded annually.

St. John–Princeton. The St. John–Princeton Scholarship Fund was established in 1955 to provide financial assistance for graduates of Princeton who have been admitted to the College of Physicians and Surgeons.

Stewart. The Edgar Eginton Stewart, Jr., Memorial Scholarship, established by Dr. E. E. Stewart in memory of his son, is awarded annually.

Vosseler. The Theodore L. Vosseler Scholarships, given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler, are awarded annually to qualified students, especially graduates of Colgate University.

Wechsler. The Robert M. Wechsler Scholarship, established by Dr. I. S. Wechsler in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the Class of 1945 in memory of their classmate, is awarded annually.

Wilson. The Dr. James Lancelot Wilson Scholarship. In the words of the donor: "the income from this fund is to be awarded each year, without regard to race, creed or color, to a deserving male or female student suffering from ischemia of opportunity and finance; such student to be selected by the College of Physicians and Surgeons."

PRIZES

Coakley. The Coakley Memorial Prize is available for award annually by the Department of Otolaryngology to the student who, in the opinion of the Professor of Otolaryngology, has done the best work in the field for the current year. The value of the prize is $200.

Cock. The Thomas F. Cock, M.D., Prize is available for award annually at Commencement to the student in the College of Physicians and Surgeons who submits the best thesis on puerperal fever. The value of the prize is about $70, the annual income of the fund bequeathed by Augustus C. Chapin.

Gay. By gift there was established, in 1948, by Mrs. Frederick Parker Gay, the Frederick Parker Gay Memorial Award in memory of her husband. The award is to be given annually to a student doing outstanding work in microbiology, who is chosen by the Executive Officer of the Department of Microbiology and the Dean of the Faculty of Medicine. The annual amount of the award is about $30.

Janeway. The Janeway Prize is available annually for award to the student graduating from the College of Physicians and Surgeons who, in the opinion of the Faculty, has ranked highest in efficiency and ability. The value of the prize is about $50, the annual income of the fund bequeathed by Matilda S. J. Wisner.

Meierhof. The Dr. Harold Lee Meierhof Prize, founded by the parents of Dr. Harold Lee Meierhof, Class of 1917, is available for award annually by the Professor of Pathology to the student who, in the opinion of the Professor of Pathology, has done the best work

in the field for the current year. The value of the prize is about $50, the annual income of the fund.

Parker. The Joseph Garrison Parker Award is given annually to that senior student in the College of Physicians and Surgeons who best exemplifies through a continuation of his or her personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go together. The award is made possible by a gift from Dr. and Mrs. Philip Parker in memory of their son, Joseph, P & S 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts were a constant source of inspiration.

Smith. The Joseph Mather Smith Prize is available for award annually to the graduate of the College of Physicians and Surgeons whose essay or original research in medical subjects is deemed by the Committee of Award to be the most meritorious. The value of the prize is about $260, the annual income of the Joseph Mather Smith Prize Fund.

Stevens Triennial. The Stevens Triennial Prize is available for award triennially to the person, not necessarily a graduate of the College of Physicans and Surgeons, who submits the best essay or original research on any medical subject. The value of the prize is about $200, the income of the fund.

Watson. By gift there was established in 1921 the Dr. William Perry Watson Foundation in Pediatrics, the annual income of which is awarded to the members of the graduating class showing the most efficient work in the study of the diseases of infants and children during his or her regular course at the College. The value of the prize is about $260. Only students who have been in attendance at the College for at least two years are eligible.

STUDENT LOANS

Loan funds are provided in a limited amount for the assistance of students, but it is the general policy to grant loans only to students who have satisfactorily completed at least one session of residence at the University. Application is made on a blank which may be obtained from the offices of the Dean or of the Bursar. Applications for the winter session should be filed by September 15; for the spring session, by January 15.

In memory of John Adams Mahew, Class of 1955, limited funds are available periodically for loans to medical students in emergencies. These were given primarily by classmates and friends and are administered by the Dean.

STUDENT EMPLOYMENT

The Dean's office will assist in obtaining suitable positions for medical students and graduates who are in need of employment. A list of the available positions for medical students is maintained. Because of the heavy schedule of the Medical School it is difficult for medical students to undertake part-time work outside the Medical Center during the academic year and, so far as feasible, other financial arrangements should be made.

GRADUATE MEDICAL EDUCATION

Opportunities for medical training beyond the undergraduate level are offered in Columbia University in two major programs. The graduate program is concerned with the training of specialists by means of hospital residencies. It is presented generally in direct continuity with sound, basic medical education, including a hospital internship which is now regarded as a part of that preparation. The postgraduate program, on the other hand, provides for the continued education of physicians in practice, and is particularly designed to enrich their preparation to meet their responsibilities to patients and the public.

THE GRADUATE PROGRAM

The graduate program includes training opportunities through fellowships at the College of Physicians and Surgeons and residencies in affiliated hospitals. Proper training for specialization includes three major elements. Primarily it provides a sufficiently long clinical experience as a resident in a hospital equipped and staffed to provide graded responsibilities under supervision of experts in the field of medicine selected. In the second place it disciplines the resident in scientific attitudes toward health and disease and enriches his clinical experience with advanced training in those medical sciences concerned largely with the field of his particular interest. Finally it provides, either in the residency experience or in a fellowship status, the opportunity to do basic or clinical research. This in turn may stimulate the type of scientific productivity worthy of recommendation for registration toward the degree of Doctor of Medical Science.

The University confers the Doctor of Medical Science (Med.Sc.D.) degree upon a few physicians who are specially qualified by a university level of training in one of the specialized fields of practice. *Only current residents appointed in one of the affiliated hospitals and Fellows registered at Columbia University are eligible for registration for the degree.* Those with proper qualifications who wish to apply for admission to register for the degree may do so on the recommendation of the executive officer of the department concerned.

The fields of graduate study are:

Anesthesiology
Dermatology
Medicine
Neurology
Neurological surgery
Obstetrics and gynecology
Ophthalmology
Orthopedic surgery
Otolaryngology
Pathology
Pediatrics
Physical medicine
Plastic surgery
Psychiatry
Radiology
Surgery
Urology

THE POSTGRADUATE PROGRAM

A variety of short courses have been organized in hospitals and clinics affiliated with the University. Those for the general practitioner furnish opportunities for him to overcome deficiencies in his earlier training, to get abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention which he can use in his practice, and to learn the indications, limitations, and value of those technical procedures which

require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is restricted to those who may reasonably be regarded as prepared to benefit by the advanced instruction.

Short courses are available at the Margaret Hague Maternity Hospital of the Jersey City Medical Center, Montefiore Hospital, Mount Sinai Hospital, the Hospital for Joint Diseases, Neurological Institute, New York State Psychiatric Institute, Presbyterian Hospital, Tuberculosis Division of Bellevue Hospital, the School of Public Health and Administrative Medicine, and the College of Physicians and Surgeons. No University credit or certificates are granted for the short courses.

Further information regarding graduate and postgraduate training may be obtained by addressing the Dean of the Faculty of Medicine, Columbia University, 630 West 168th Street, New York 32, N.Y.

PLAN OF UNDERGRADUATE INSTRUCTION

The curriculum is arranged with the object of providing the student with the necessary opportunities for acquiring a knowledge of the fundamental sciences in relation to medicine and the techniques of approach to medical problems. Beginning in the first two academic years with a study of the basic sciences, particularly anatomy, physiology, biochemistry, microbiology, pharmacology, and pathology, the student prepares himself for an understanding of the problems to be encountered in his later clinical work. The third and fourth academic years are devoted to mastering the methods of diagnosis and treatment of patients and to acquiring a knowledge of disease patterns, emphasizing in particular the more important fields of medicine, surgery, pediatrics, obstetrics, and psychiatry.

Throughout the entire course an effort is made to correlate the different phases of medical learning by means of "correlative" and "combined" clinics in which the various departments cooperate in the discussion and demonstration of the same and related problems and thus treat the study of medicine as a unit rather than a series of isolated branches of learning. At the same time an attempt is made to individualize instruction and to place responsibility as far as is practical upon the student for his own education. This is accomplished by means of the division of classes into small sections, by conferences, clinical clerkships, and the case method of instruction. It is the policy of the Faculty that the program shall remain flexible, in keeping with the special interests of individual students.

The preparation of the student is designed to enable him to continue his education in the hospital internship, by graduate studies in the specialties, in the practice of medicine, or in other fields of medical endeavor.

SUMMARY OF STUDIES

The Faculty reserves the right to make such changes in the program of studies as experience may prove desirable. These changes may be made at any time.

First Year

REQUIRED COURSES		HOURS
Anatomy 101FS	Microscopic anatomy	158
Anatomy 102FST	Systematic human anatomy	303
Anatomy 103 F	Embryology	18
Anatomy 106ST	Neuroanatomy	96
Anatomy 114FFo	Correlative clinics	24
Biochemistry 101Fo	Introductory biochemistry	181
Physiology 101Fo	Human physiology	226
Psychiatry 101FST	Introduction to human behavior	20
Public Health 201	Medical statistics	12
	TOTAL	1,038

Second Year

Anatomy 105FS	Clinical anatomy	20
Medicine 101T	Elementary physical diagnosis	88
Medicine 102S	Elementary clinical pathology	88

REQUIRED COURSES		HOURS
Medicine 103T	Introductory medicine	10
Microbiology 101F	General microbiology	140
Microbiology 105F	Infection, immunity, etc.	52
Neurology 101T	Neurological examination	20
Pathology 101FST	General and special pathology	344
Pathology 102S	Neuropathology	33
Pathology 103FS	Medicine-pathology case study	33
Pharmacology 101ST	General	121
Psychiatry 102S	Psychopathology	10
Public Health 101S	Parasitic diseases	51
Surgery 101S	Introduction to surgery	11
Surgery 102T	Principles of surgery	60
	TOTAL	1,081

Third Year

Dermatology 203–204	34
Medicine 201–202, 203–204, 205–206	447
Neurology 207–208, 209–210	38
Obstetrics and Gynecology 201–202	56
Ophthalmology 201–202, 203–204	42
Orthopedic Surgery 201–202, 203–204	80
Otolaryngology 201–202, 203	40
Pediatrics 201–202, 207–208	208
Psychiatry 203–204	147
Public Health 203–204	76
Radiology 201–202, 206	24
Surgery 201–202, 204–205, 211–212	219
Electives	385
TOTAL	1,796

Fourth Year

Dermatology 205–206	28
Medicine 205–206, 207–208, 209–210, 216, 221–222, 223–224, 225–226	481
Neurology 202	30
Obstetrics and Gynecology 203–204	280
Orthopedic Surgery 205–206	24
Pediatrics 203–204	140
Pharmacology 202	16
Psychiatry 205	15
Public Health 207–208	11
Radiology 203–204	16
Surgery 209–210, 213–214, 217–218, 219–220	292
Urology 201–202	36
Electives	280
TOTAL	1,649

COURSES OF INSTRUCTION

For purposes of instruction the first academic year is divided into four periods; the second into trimesters; the third into quarters; and the fourth into six periods.

The academic year for the first- and second-year classes is approximately nine months in length. The third and fourth years are twelve months in length.

Elective courses are arranged so that students may continue, supplement, or vary the work done in the prescribed courses. The students may arrange for elective courses at the beginning of any period and will be held responsible for attendance and the successful passing of examinations. Specially qualified students of the fourth-year class, upon nomination by the head of a department and with the permission of the Committee on Administration, may substitute elective courses or research in that department for certain prescribed courses.

All students other than those regularly matriculated for the degree of Doctor of Medicine must secure permission from the instructor in charge before registering for any course.

ANATOMY

Professors: W. M. Copenhaver, S. R. Detwiler (*Executive Officer*), E. T. Engle (*Obstetrics and Gynecology*), F. A. Mettler (*Neurology*), G. K. Smelser (*Ophthalmology*)

Associate Professors: F. J. Agate, H. O. Elftman, M. R. Murray (*Surgery*), C. A. Noback, A. E. Severinghaus (*Associate Dean*)

Associate Professor of Dental Anatomy: E. Applebaum (*Dental and Oral Surgery*)

Associate Clinical Professor: E. B. Kaplan

Assistant Professors: M. B. Carpenter, C. A. Ely, D. D. Johnson, M. L. Moss, W. M. Rogers, H. H. Shapiro

Associates: E. A. MacDowell, E. A. Manginelli, B. Salzer

Associate in Neurology: L. V. Lyons

Instructors: R. C. Drelich (*Dental and Oral Surgery*), J. V. Gazzola, H. Gladstone, B. W. Glick, J. S. Harrison, J. K. Littman, H. P. Levy (*Dental and Oral Surgery*), S. F. Thomas (*Neurology*)

Assistants: P. J. Goettler, L. E. Sirna (*Dental and Oral Surgery*), E. Taber

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Anatomy 101FS—Microscopic anatomy. Lectures, conferences, and laboratory. First year. 6 pts. Professors Copenhaver, Engle, Smelser, Johnson, and assistants.

Anatomy 102FST—Systematic human anatomy. Lectures, conferences, and laboratory. First year. 12 pts. Professors Agate, Carpenter, Detwiler, Elftman, Ely, Moss, Noback, and assistants.

Anatomy 103F—Embryology. First year. 2 pts. Professors Copenhaver, Detwiler, Ely, Rogers, and Smelser.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 105FS—Clinical anatomy. One hour a week for twenty weeks. Second year. 2 pts. Professor Rogers and members of the clinical staffs.

A course of lectures and demonstrations in which the more important phases of anatomy are reviewed by clinicians and discussed in relation to their application in different fields of clinical work.

Anatomy 106ST—Neuroanatomy. Lectures, demonstrations, and laboratory. First year. 6 pts. Professors Carpenter and Noback, and staff.

Anatomy 114FFo—Correlative clinics in anatomy, biochemistry, and physiology. First year. Professor Perera (*from Medicine*) in charge.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Anatomy 112S—Special senses. Open to second-, third-, and fourth-year medical students. 2 pts. Professors Detwiler and Smelser. *Not given in 1956–1957.*

This course deals primarily with the gross and microscopic anatomy and the connections of the eye and ear with the central nervous system.

SUMMER SESSION 1956

Anatomy s101—Introduction to human anatomy. 6 pts. Professor Elftman and assistant.

Anatomy s107—Histology. 6 pts. Professor Johnson and assistant.

For courses offered under the Faculty of Pure Science consult the Pure Science announcement.

ANESTHESIOLOGY

Professors: V. Apgar, E. M. Papper (*Executive Officer*)

Assistant Professors: J. Bartels, B. R. Fink, M. J. Frumin, E. C. Hanks, J. Henley, D. A. Holaday, J. Kreiselman, L. C. Mark, H. Rackow, H. Schwartz

Associates: N. A. Bergman, R. A. Jacobs, V. Lauderdale, S. Nagi,[1] E. Salanitre, S. Silverman

Instructors: L. Brand, R. M. Epstein, M. M. Kritchman, A. Levy, R. W. Patterson[1]

Assistant in Pediatrics: L. S. James

BIOCHEMISTRY

Professors: E. Chargaff, G. L. Foster, S. Graff, K. Meyer (*Medicine*), D. Rittenberg (*Executive Officer*), D. Shemin, W. M. Sperry, H. B. Waelsch (*Psychiatry*)

Associate Professors: Z. Dische (*Ophthalmology*), M. Karshan (*Dental and Oral Surgery*), S. Lieberman (*Obstetrics and Gynecology*), B. W. Low, D. B. Sprinson, I. B. Wilson (*Neurology*), S. Zamenhof

Assistant Professors: J. A. Behre, L. S. Dietrich (*Surgery*), M. Engelman, P. Feigelson (*Medicine*), H. B. Gillespie, G. Y. Gottschall, E. Hirschberg (*Medicine*), A. L. Lajtha (*Psychiatry*), I. Mandl (*Microbiology*), H. Meltzer (*Psychiatry*), T. D. Price (*Urology*), H. S. Simms (*Pathology*), H. J. Strecker (*Psychiatry*), B. Weiss (*Psychiatry*)

Associates: E. Borek, W. Halpert, C. R. Harmison (*Pathology*), H. C. Lawler (*Neurology*)

Research Associates: M. Berger (*Psychiatry*), I. Danishefsky, H. de Roetth (*Obstetrics and Gynecology*), D. Elson, P. Hoffman (*Medicine*), E. Kuntz (*Pathology*), A. Linker (*Medicine*), M. E. Lombardo (*Urology*), M. London (*Urology*), V. Ross, H. Sachs (*Psychiatry*), H. T. Shigerura, S. Solomon (*Obstetrics and Gynecology*), I. Sucher, K. K. Tsuboi (*Urology*)

Instructors: A. I. Krasna, S. L. Miller

Research Assistant: E. Borenfreund

[1] On leave 1956–1957.

At Goldwater Memorial Hospital:

Professor: F. E. Kendall (*Medicine*)
Assistant Professor: E. H. Mosbach (*Medicine*)
Associate: M. M. Daly (*Medicine*)
Research Associate: L. Abell (*Medicine*)

At Mary Imogene Bassett Hospital:

Associate: T. Peters, Jr. (*Medicine*)

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Biochemistry 101Fo—Introductory biochemistry. Three hours lecture and twelve hours laboratory a week for fourteen weeks. First year. 8 pts. The staff.

Special reference to the animal organism.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Biochemistry 111FFo—Correlative clinics in anatomy, biochemistry, and physiology. First year. Professor Loeb (*from Medicine*) in charge. See *Anatomy 114FFo.*

Biochemistry 211–212—Special methods of biochemistry. Eligibility and hours to be determined on consultation. The staff.

A study and discussion of biochemical methods. Intended to prepare the student for research or for practical application of the subject of biochemistry.

Biochemistry 215–216—Research in biochemistry. Eligibility to be determined on consultation. The staff.

Biochemistry 228—Thermodynamics and kinetics for biochemists. One hour. 2 pts. Sp. Professor Wilson.

The principles of thermodynamics and kinetics will be developed with regard to their application to problems in experimental biochemistry, including oxidation, intermediary metabolism, enzyme mechanism, etc.

Biochemistry 229–230—Enzymes. One hour. 2 pts. Professors Strecker and Waelsch; Dr. Sachs.

Mechanism of enzyme action; systematic enzymology; enzymatic processes in organized biological structures.
Admission only with permission of the department.

Biochemistry 301–302—Seminar. No credit. Open to all students in the University.

The members of the teaching staff, candidates for the degree of Doctor of Philosophy, and all other investigators in the department meet weekly to discuss results of recent researches in biochemistry.

For courses offered under the Faculty of Pure Science consult the Pure Science announcement.

SCHOOL OF DENTAL AND ORAL SURGERY

The announcement of the School of Dental and Oral Surgery, describing the content of the course leading to a Doctor of Dental Surgery (D.D.S.) degree, and the announcement of Postgraduate Courses for Dentists may be obtained from the Office of the Associate Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York 32, N. Y.

DERMATOLOGY

Professor: C. T. Nelson (*Executive Officer*)
Clinical Professors: G. C. Andrews, P. Gross
Associate Clinical Professors: G. F. Machacek, J. L. Miller
Assistant Professor: M. Silva-Santiago
Assistant Professor of Clinical Dermatology: B. M. Kesten
Assistant Clinical Professors: L. P. Barker, D. Moon-Adams, T. Rosenthal
Associates: H. O. Curth, W. Curth
Research Associate: J. H. Hill
Instructors: B. J. Chester, A. N. Domonkos, F. P. Lowenfish, R. M. Montgomery, C. F. Post, J. E. Ridgway, L. Schweich, M. H. Slatkin, M. B. Sloane
Assistants: I. Abrahams, M. Brodey, B. Dobias, J. T. Hearin

At Mt. Sinai Hospital:

Associate Clinical Professor: S. M. Peck

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Dermatology 203–204—Dermatology and syphilology. Two introductory lectures and one symposium on common dermatoses to the class and ten demonstration sessions of three hours each to sections. Third year. Professors Barker and Nelson, and associates.
At Vanderbilt Clinic.

Dermatology 205–206—Dermatology and syphilology. Seven hours a week for one month. Fourth year. Professors Miller and Nelson, Dr. Chester, and associates.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Dermatology 101T—Medical mycology. Six hours per week for twelve weeks. 3 pts. Professor Silva-Santiago.
Hours to be arranged.

Dermatology 207–208—Outpatient clinic clerkships. Five afternoons a week for one month. Third and fourth years. Members of the staff.

Dermatology 219–220—Histopathology of the skin. Professor Machacek.
Hours to be arranged.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

MEDICINE

Professors: F. M. Hanger, Jr., R. F. Loeb (*Executive Officer*)
Professor of Biochemistry: K. Meyer
Professor of Clinical Medicine: D. W. Atchley
Clinical Professors: F. R. Bailey, A. L. Barach, F. Dieuaide
Clinical Professor of Psychiatry: G. E. Daniels
Associate Professors: S. E. Bradley, A. Gellhorn (*Delafield Hospital*), Y. Kneeland, Jr., G. A. Perera, C. Ragan, J. V. Taggart
Associate Professors of Clinical Medicine: C. A. Flood, J. W. Jailer (*Obstetrics and Gynecology*), J. C. Turner, S. C. Werner

Associate Clinical Professors: S. W. Lambert,[1] W. B. Sherman, H. Southworth

Assistant Professors: J. Davidson, A. P. Fishman, A. I. Knowlton, D. Schachter, D. F. Tapley, R. Wégria

Assistant Professors of Biochemistry: P. Feigelson, E. Hirschberg

Assistant Professor of Clinical Medicine: A. R. Lamb, Jr.

Assistant Professors of Microbiology: C. Howe, C. Morgan

Assistant Clinical Professors: H. G. Bruenn, G. A. Carden, C. D. Dunham, S. C. Fisk, W. A. Gardner,[1] M. Goldenberg, M. J. Lepore, P. C. Lloyd, T. B. Russell, P. B. Sheldon, H. B. Wilcox, Jr.

Associates: H. Aranow, S. W. Cosgriff, L. H. Cotter, R. J. Cross, C. J. Dalton, F. E. Demartini, R. B. Duane, A. W. Grokoest, B. C. Holland (*Psychiatry*), D. L. Larson, E. Leifer, E. N. Loeb, R. B. McKittrick, H. E. Marks, P. A. Marks, G. W. Melcher, I. Mufson, E. F. Osserman, K. L. Pines, C. H. Plimpton, H. M. Ranney

Research Associate: H. D. Grossfeld

Research Associates in Biochemistry: P. Hoffman, A. Linker

Instructors: J. M. Baldwin, Jr., G. J. Beck, G. P. Bradley, D. N. Brown, N. P. Christy, H. P. Colmore, I. H. Goldberg, G. C. Hennig, H. H. Holmes, G. A. Hyman, G. S. Jones, R. A. Kritzler, J. H. Laragh, G. H. McCormack, Jr., J. A. L. Mathers, R. Muller, H. W. Neuberg, F. M. Pruyn, F. H. Shillito, R. Stock, T. L. Tyson, H. D. Wheeler, C. R. Wise, P. Wolkonsky

Assistants: S. F. Alexander, C. Alston, H. M. Anderson, A. T. Baker, E. Bauman, J. T. Beaty, A. E. Brewer, R. M. Carey, N. J. Conan, Jr., C. Cooke, J. A. Coss, Jr., A. Damon, J. Van B. Dean, H. W. Doyle, S. Dvoskin, J. E. Edreira, D. Estes, W. H. Franklin, C. Gerbi, A. Gibson, C. R. Hulse, D. M. Kanter, K. A. McClane, M. L. Marinovich, E. Middleton, Jr., G. Mulheims, R. Noble, T. Richter, M. Rosenschein, Jr., D. H. Smith, A. I. Snyder, C. J. Tyson, Jr., C. A. Vicens, J. A. Wood

At Bellevue Hospital:

Professors: A. F. Cournand, D. W. Richards

Clinical Professor: M. Dinnerstein

Associate Professors: J. M. Jones, J. H. McClement

Associate Clinical Professors: C. R. Gross, I. Rappaport, H. McL. Riggins, K. J. Thomson

Assistant Professors of Clinical Medicine: M. I. Ferrer, R. Harvey

Assistant Clinical Professor: W. H. Stearns

Associates: O. S. Baum, M. E. Campbell, H. H. Coppersmith, W. L. Evans, H. W. Fritts, L. H. Hellstrom, H. M. Hicks, A. Hoff, J. Leland, F. D. Rossomondo, P. Wermer, C. H. Whitney

Instructors: E. Alpert, R. F. Alsop, H. S. Collins, B. B. Eichler, H. Fong, B. B. Garthwaite, B. J. Handler, F. S. Lansdown, J. V. Lichtenstein, H. Perrone, H. G. Schaffeld, W. J. Sheils, A. M. Tunick

Assistants: S. C. Alexander, L. L. Davis, W. W. Field, L. Fishel, D. L. Hartman, S. N. Heller, C. R. Ream, M. B. Smith, L. Warshaw, C. S. Yongue

Lecturer: M. Kuschner

At Roosevelt Hospital:

Associate Clinical Professors: A. J. Antenucci, J. M. Freston

Assistant Clinical Professors: N. S. Brown, G. Taylor

Associate: W. H. Button, Jr.

Assistant: A. C. Santy

[1] On leave 1956–1957.

At Goldwater Memorial Hospital:

Professor: D. Seegal
Professor of Biochemistry: F. E. Kendall
Associate Professor of Pathology: M. Bevans
Associate Clinical Professor: A. J. Patek, Jr.
Assistant Professors: Q. B. Deming, A. R. Wertheim
Assistant Professor of Biochemistry: E. H. Mosbach
Assistant Clinical Professors: H. Bickerman, A. Steiner
Associates: H. Colcher, M. E. Hodes, H. Lax
Associate in Biochemistry: M. M. Daly
Research Associate in Biochemistry: L. L. Abell
Instructor: A. W. Feinberg
Assistants: B. M. Cohen, E. German, D. Rudman, L. A. Scarrone, E. Schmatolla
Research Assistant: F. Drimmer

At Mt. Sinai Hospital:

Professor: A. B. Gutman
Associate Clinical Professors: C. K. Friedberg, A. M. Master, S. Silver
Assistant Clinical Professors: D. Adlersberg, W. M. Hitzig, M. Mendlowitz, C. B. Rabin, L. R. Wasserman, A. Winkelstein
Associates: H. Horn, T. F. Yu
Lecturers: S. Dack, I. E. Gerber, H. L. Jaffe, F. H. King, F. D. Zeman

At Montefiore Hospital:

Clinical Professors: R. G. Bloch, L. Leiter
Associate Clinical Professor: S. P. Schwartz
Assistant Clinical Professors: S. Biloon, H. Gross, K. Harpuder, A. Jezer, S. Melamed, J. B. Schwedel, L. E. Siltzbach, B. Weingarten
Instructor: I. D. Stein
Lecturers: J. Ballinger, M. L. Brown, W. Chester, M. Dolgin, A. S. Dooneief, C. D. Enselberg, M. Friedenson, E. Goldberger, J. Harkavy, B. E. Jacobson, D. Laszlo, H. I. Lippman, H. Rifkin, M. Rodstein, I. L. Rubin, B. Scholder, V. Silvestri, L. Spiegel, L. Tarr, A. Weiss, R. E. Weston, D. Young

At Mary Imogene Bassett Hospital:

Clinical Professor: J. Bordley III
Associate Clinical Professor: J. W. Ferrebee
Assistant Clinical Professor: F. F. Harrison
Associate: E. D. Thomas
Associate in Biochemistry: T. Peters, Jr.
Instructors: J. C. Mithoefer, W. H. Mook

At St. Luke's Hospital:

Associate Clinical Professor: G. J. Coffin
Assistant Clinical Professors: W. B. Farnum, A. C. Herring, O. R. Jones, W. J. Pyles
Associates: C. G. Adsit, J. G. Hilton, J. H. Keating, Jr.
Instructors: A. L. L. Bell, J. Feltman, R. P. Keating

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Medicine 101T—Elementary physical diagnosis. Eight hours a week for ten weeks. Second year. No pts. Professor Kneeland and associates.

Medicine 102S—Elementary clinical pathology. Eight hours a week for eleven weeks. Second year. 2 pts. Professor Turner and associates.

This course consists of instruction in the technique of blood-counting, etc., and systematic instruction in the various chemical and microscopical methods.

Medicine 103T—Introductory medicine. One hour a week for ten weeks. Second year. No pts. Professor Atchley.

Medicine 201–202—Ward clinical clerkship in medicine. Eleven weeks. Third year. Professor Atchley in charge.

Medicine 203–204—Medical lectures. One hour a week for twenty-eight weeks. Third year. Professor M. I. Ferrer and associates.

A series of lectures or clinics devoted to important problems of internal medicine. Approximately half of these lectures are assigned to outstanding students of the fourth-year class for presentation to third-year students with a member of the faculty orienting discussion.

Medicine 205–206—Combined clinics. One and a half hours a week for thirty weeks. Third and fourth years.

Medicine 207–208—Outpatient clinical clerkships (group clinic). Combined with *Surgery 209–210*. Two months. Fourth year. Professor Lamb in charge.

Medicine 209–210—Medical therapeutics and applied pharmacology. Sixteen lectures. Fourth year. Third-year elective. Professor Southworth in charge.

Practical management, including home care, of major medical problems with a review of the pertinent pharmacology. See *Pharmacology 202*.

Medicine 216—Forensic medicine and medical jurisprudence. Sixteen lectures. Fourth year. Dr. Vance and Mr. Werne (*both from Public Health*).

Medicine 221–222—Clinical clerkships on the wards at Bellevue Hospital. Fourth year. Professor Richards and associates.

Medicine 223–224—Clinical clerkships in chronic diseases of the chest at Bellevue Hospital. Fourth year. Professor McClement and associates.

Medicine 225–226—Medical and surgical conferences at Bellevue Hospital. Fourth year. Professors Richards and Lewis (*from Surgery*) in charge.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Medicine 227–228—Special clinics at Presbyterian Hospital. Third and fourth years.

Morning Clinics:

A. *Diabetes.* M. W. F. Floor 2. Limited to six students each morning. Professor Sanger and Dr. Marks.
B. *Thyroid.* F. Floor 10. Limited to six students. Professor Werner and Dr. Aranow.

C. *Nephritis and hypertension.* Tu. Floor 2. Limited to four students. Professor Bradley.

Afternoon Clinics:

D. *Allergy.* M. Tu. Th. F. Floor 10. Limited to two students each morning. Professor Sherman.
E. *Cardiac.* F. Floor 10. Professor M. I. Ferrer.
F. *Arthritis.* W. F. Floor 10. Limited to four students daily. Professor Ragan.
G. *Combined endocrine.* Tu. Floor 3. Limited to six students. Professor Werner and associates.
H. *Gastrointestinal.* M. W. F. Floor 3. Limited to two students daily. Professor Flood.

Students desiring elective work in these clinics should make application one week before the beginning of the quarter to the secretary of the Department of Medicine. The third-year clinical clerkship in medicine is prerequisite for these elective courses. Assignments are announced three days before the beginning of the quarter.

Medicine 229–230—Differential diagnosis. Fourth year. Professor Hanger.

In this course abstracts of histories are distributed before the exercises and the diagnosis is handed to the instructor. The diagnosis is known neither to student nor instructor. There is a discussion of the diagnosis and pathological material is presented.

Medicine 231–232—Research in medicine. Under the direction of Professor Loeb.

This course is open to qualified workers, who may pursue research in the clinical laboratories of the Department of Medicine.

Medicine 235–236—Elective clinical clerkship. Two months. Fourth year.

The student elects a combined medicine and surgery clerkship in one of the following hospitals: Roosevelt, St. Luke's, Mary Imogene Bassett, or Goldwater (straight medical clerkship).

ELECTIVE COURSES IN MEDICINE

Medicine 237—Elective course in cardiorespiratory physiology. Fifteen lectures, all classes. Professors Cournand and Richards.

Medicine 239—Elective course in clinical biochemistry (Public Health Research Institute of the City of New York). Alternate years. Fifteen lectures, all classes. Professor Taggart.

MICROBIOLOGY

Professors: E. A. Kabat (*Neurology*), H. M. Rose (*Executive Officer*)
Professor of Bacteriology: C. W. Jungeblut
Associate Professors: S. P. Halbert (*Ophthalmology*), D. H. Moore, B. C. Seegal
Assistant Professors: S. M. Beiser, B. F. Erlanger, C. Howe (*Medicine*), N. Kopeloff (*Psychiatry*), C. Morgan (*Medicine*), H. Seneca (*Urology*), S. W. Tanenbaum
Assistant Professor of Biochemistry: I. Mandl
Associates: S. A. Ellison, M. Holden, A. W. Knox, E. Y. Lasfargues, D. Locatcher-Khorazo (*Ophthalmology*)
Research Associate: I. M. Mountain
Assistants: K. C. Hsu, G. Schiffman (*Neurology*)

At Mt. Sinai Hospital:

Professor: G. Shwartzman

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Microbiology 101F—General medical microbiology and immunology. Thirteen hours laboratory, conferences, and demonstrations. Second year. 6 pts. Members of the staff.

This course consists of informal discussions, problems, demonstrations, and laboratory work.

Microbiology 105F—The principles of microbiology, immunology, epidemiology, and the specific diagnosis and therapy of infectious diseases. Five hours lecture and demonstrations. Second year. 3 pts. Members of the staff.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Microbiology 118T—Medical mycology. Five hours per week for twelve weeks. 3 pts. Hours to be arranged.

Microbiology 251FST—Research in problems of immunology and immunochemistry. Laboratory. 2 to 6 pts. each trimester. Under the direction of the staff. Hours to be arranged.

For courses offered under the Faculty of Pure Science consult the Pure Science announcement.

NEUROLOGICAL SURGERY

Professor: J. L. Pool (*Executive Officer*)
Professor of Clinical Neurological Surgery: J. E. Scarff
Associate Professor of Clinical Neurological Surgery: L. A. Mount
Associate Clinical Professor: F. Cramer
Assistant Professors: J. B. Campbell, D. P. Purpura
Assistant Professors of Clinical Neurological Surgery: J. Ransohoff, E. B. Schlesinger
Associate: T. J. Bridges
Instructor: J. W. Correll

NEUROLOGY

Professor: H. H. Merritt (*Executive Officer*), D. Nachmansohn
Professor of Neuropathology: A. Wolf
Professor of Anatomy: F. A. Mettler
Professor of Microbiology: E. A. Kabat
Associate Professors: H. Grundfest, P. F. A. Hoefer
Associate Professor of Clinical Neurology: S. Carter, D. Sciarra, C. T. Vicale
Associate Professor of Biochemistry: I. B. Wilson
Associate Professor of Neuropathology: D. Cowen
Assistant Professors: M. Altamirano, J. P. Davis, E. S. Goldensohn
Assistant Professors of Clinical Neurology: W. F. Caveness, E. Herz, R. J. Masselink, J. Moldaver, L. A. Salmon, M. D. Yahr
Assistant Professor of Neuropathology: I. H. Feigin
Assistant Clinical Professors: A. M. Frantz, C. C. Hare, G. H. Hyslop, J. M. McKinney, M. Silbermann, H. G. Weitzen
Associates: W. Amols, F. Ansanelli, K. Constable, S. M. Dillenberg, L. J. Doshay, R. A.

Fishman, A. Gallinek, L. V. Lyons (*Anatomy*), R. Pietri, S. F. Thomas, F. T. Zimmerman

Associate in Biochemistry: H. C. Lawler

Associate in Neuropathology: S. M. Aronson

Research Associates: A. Y. Beller, K. Cobb, S. M. Crain, M. Eisenberg, S. Ginsburg, H. Hartford, E. H. J. Schoffeniels, V. Vossius, A. Weber

Instructors: S. M. Cohen, J. F. Culleton, J. L. Greene, S. Lesse, C. G. McKendree, A. A. Rosner

Assistants: B. August, F. P. Iorio, R. Katzman, E. W. Loeser, Jr., J. L. O'Brien

Assistant in Microbiology: G. Schiffman

Research Assistants: B. B. Burgemeister, L. Zablow

At Montefiore Hospital:

Professor of Clinical Neurology: Tiffany Lawyer, Jr.

Associate Clinical Professor: A. P. Friedman

Assistant Clinical Professors: S. Elpern, M. J. Madonick, F. D. Stern

Associates: L. P. Rowland, S. Solomon

Instructors: S. Maringer, R. B. Miller, G. F. Osler, J. H. Scharf, K. Strully, M. J. Tissenbaum

Assistants: B. August, R. J. Greenberg

At Mt. Sinai Hospital:

Assistant Clinical Professor: R. M. Brickner

Lecturer: H. Strauss

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Neurology 101T—Introduction to clinical neurology: Neurological examination, anatomical, physiological, and pathological correlations. Lectures and demonstrations two hours a week for ten weeks. Second year. Professors Merritt and Vicale.

Neurology 202—Clinical lectures and demonstrations in neurology. One and a half hours a week for twenty weeks. Fourth year. Professors Merritt, Pool, and Vicale.

Neurology 207–208—Neurology: examination of the patient and interpretation of findings. Fifteen hours a week for two weeks. Third year. Members of staffs.

At Neurological Institute and Montefiore Hospital.

Neurology 209–210—Neurology: the diseases of the nervous system. Lectures and demonstrations two hours a week for seven weeks. Third year. Professor Merritt and staff.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Neurology 241–242—Ward clinical clerkships. Five mornings a week, 9–12; five afternoons a week, 2–5; for eleven weeks. Third year. Professor Merritt and staff.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

NURSING

See the announcement of the Department of Nursing.

OBSTETRICS AND GYNECOLOGY

Professor: H. C. Taylor (*Executive Officer*)
Professor of Clinical Obstetrics and Gynecology: D. A. D'Esopo
Professor of Anatomy: E. T. Engle
Clinical Professors: E. E. Bunzel, V. C. Damon
Associate Professors: A. A. Plentl, G. J. Vosburgh
Associate Professor of Biochemistry: S. Lieberman
Associate Professors of Clinical Obstetrics and Gynecology: S. M. Bysshe, S. B. Gusberg, C. M. Steer
Associate Professor of Clinical Medicine: J. W. Jailer
Associate Clinical Professor: W. V. Cavanagh
Assistant Professors of Clinical Obstetrics and Gynecology: C. P. O'Connell, L. B. Shettles, A. J. B. Tillman
Assistant Clinical Professors: J. R. Montgomery, E. W. Munnell
Associates: A. N. Fenton, H. C. Frick, D. B. Moore, J. B. Rearden, H. Speert
Research Associates: S. Bader, J. Bitman, M. E. Long, L. L. Phillips
Research Associates in Biochemistry: H. de Roetth, S. Solomon
Instructors: D. J. Grandin, R. E. Hall, M. D. Laird, A. L. S. Southam, H. M. M. Tovell, R. L. Vander Wiele
Instructor in Psychiatry: L. Gidro-Frank
Assistant: T. J. Parks

At Mary Imogene Bassett Hospital:

Associate Clinical Professor: O. J. Severud

At Margaret Hague Maternity Hospital:

Assistant Clinical Professors: J. N. Connell, R. A. Cosgrove, J. P. Donnelly, E. G. Waters

At Mt. Sinai Hospital:

Clinical Professor: A. F. Guttmacher
Clinical Professor of Gynecology: M. A. Goldberger

At Woman's Hospital:

Clinical Professor: A. H. Aldridge
Assistant Clinical Professor: R. A. Hurd

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Obstetrics and Gynecology 201–202—Theory and practice of obstetrics and gynecology. Fifty-six hours of lectures and demonstrations. Third year.

This course consists of lectures supplemented by demonstrations. The subject matter includes: anatomy and physiology of the pelvic organs; pregnancy and the mechanism of normal labor; the complications of diseases associated with pregnancy; etiology, pathology, symptomatology, and diagnosis of gynecological conditions.

Obstetrics and Gynecology 203–204—Fourth year: practical work in obstetrics and gynecology.

The practical work in this obstetrics and gynecology class is divided into six sections, each section receiving eight and one-half weeks of instruction. During this period, each section is divided into three groups:

1. *Obstetrics at Sloane Hospital for Women.* Day and night duty, during which time lodging is furnished by the hospital. Under the direction of the attending staff of the hospital, ward rounds, quizzes, manikin demonstrations, and actual delivery of cases are conducted.
2. *Obstetrics and Gynecology at Sloane Section of Vanderbilt Clinic.* Prenatal and postnatal clinics. Pre-operative and postoperative care of gynecological cases plus instruction in gynecological diagnosis.
3. *Gynecological Service at Sloane Hospital for Women.* Students act as clinical clerks in the wards of the hospital and follow operative and therapeutic care of patients.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

OPHTHALMOLOGY

Professor: J. H. Dunnington (*Executive Officer*)
Professor of Anatomy: G. K. Smelser
Professor of Clinical Ophthalmology: G. M. Bruce
Clinical Professors: A. B. Reese, M. C. Wheeler
Associate Professor of Biochemistry: Z. Dische
Associate Professor of Microbiology: S. P. Halbert
Associate Professors of Clinical Ophthalmology: J. P. Macnie, R. L. Pfeiffer (*Radiology*)
Associate Clinical Professors: W. S. Knighton, C. A. Perera
Assistant Clinical Professor: R. N. Berke
Associates: H. D. H. Brown, F. D. Carroll, G. Clark, J. V. Flack, G. R. Merriam, F. Payne, E. F. Regan, J. A. C. Wadsworth
Associate in Microbiology: D. Locatcher-Khorazo
Research Associates: O. Lowenstein, G. Rand
Instructors: C. G. Barer, E. G. Bethke, R. M. Day, P. Knapp, V. Ozanics, M. C. Rittler
Assistants: R. C. Collins, A. de Roetth, Jr., A. Forrest, I. S. Jones
Consultant: H. Martin

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Ophthalmology 201–202—Practical instruction in ophthalmology. Fifteen hours a week for two weeks. Third year.

At Vanderbilt Clinic and Institute of Ophthalmology.

Ophthalmology 203–204—Clinical lectures on the diseases of the eye. Twelve one-hour lectures. Third year.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

ORTHOPEDIC SURGERY

Professor: F. E. Stinchfield (*Executive Officer*)
Professors of Clinical Orthopedic Surgery: H. Hallock, H. L. McLaughlin
Clinical Professor: L. A. Lantzounis
Associate Professor of Clinical Orthopedic Surgery: F. M. Smith
Assistant Professors of Clinical Orthopedic Surgery: S. R. Gaston, M. B. Watkins
Assistant Clinical Professors: E. C. Bragg, W. H. von Lackum
Instructors: G. B. Ambrose, C. A. L. Bassett, R. E. Carroll, F. S. Craig, A. Garcia, D. K. McElroy, C. S. Neer II, C. T. Ryder

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Orthopedic Surgery 201–202—Lectures on orthopedic surgery. One hour a week for ten weeks. Third year. Professor Stinchfield.

Orthopedic Surgery 203–204—Practical instruction in orthopedic surgery, including fractures and dislocations. Two and one half weeks as a part of *Surgery 204–205*. Third year. Professors Stinchfield and McLaughlin, and staff.

Thirty hours of seminars. Thirty hours of practical instruction in clinics and wards.

Orthopedic Surgery 205–206—Practical instruction in orthopedic surgery, including fractures and dislocations. Twenty-four hours. Fourth year. Professors Stinchfield and McLaughlin, and staff.

Fourteen hours of seminars. Ten hours of practical instruction in clinics and wards.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Orthopedic Surgery 207–208—Clinical instruction on wards, in outpatient department and in operating room. Third year.

The Department of Orthopedic Surgery participates in the correlative clinics in the first year, with a discussion of fractures, and also presents a series of lectures in connection with *Surgery 102T* and *Anatomy 105FS* in the second year.

OTOLARYNGOLOGY

Professor: E. P. Fowler, Jr. (*Executive Officer*)
Clinical Professors: F. Altmann, D. C. Baker, Jr., J. J. Conley, DeG. Woodman
Associate Professors of Clinical Otolaryngology: G. V. Browne, J. Waltner
Assistant Clinical Professor: H. S. Friedman
Associates: E. B. Bilchick, B. Marquit
Instructors: M. Basek, S. R. Daly, R. M. Hui, P. Lindenberg, P. D. Westerhoff
Lecturer: J. Eisenson

At Mt. Sinai Hospital:

Clinical Professor: J. L. Goldman
Associate Clinical Professors: I. B. Goldman, H. Rosenwasser

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Otolaryngology 201–202—Practical instruction in the diseases of the ear, nose, and throat. Ten three-hour sessions. Third year. Professors Altmann, Fowler, Waltner, and Woodman, Dr. Basek, and staff.

At Vanderbilt Clinic.

Otolaryngology 203—Lectures in otolaryngology. A total of ten hours. Third year. Professors Altmann, Baker, Fowler, Woodman, and staff.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Otolaryngology 225–226—Research in otolaryngology. Credit and hours to be arranged. Professor Fowler.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

PATHOLOGY

Professor: H. P. Smith (*Executive Officer*)
Professor of Neuropathology: A. Wolf
Associate Professors: D. H. Andersen (*Pediatrics*), C. Z. Garber, D. M. Spain, E. H. Sproul, W. B. Stewart
Associate Professors of Neuropathology: D. Cowen, L. Roizin (*Psychiatry*)
Associate Professor of Oral Pathology: L. Cahn (*Dental and Oral Surgery*)
Assistant Professors: D. E. Brown, W. T. Hill, T. W. Roberts, G. P. Vennart, T. F. Zucker
Assistant Professor of Biochemistry: H. S. Simms
Assistant Professors of Neuropathology: G. Eros (*Psychiatry*), I. H. Feigin, M. Kaufman (*Psychiatry*)
Assistant Professors of Oral Pathology: H. A. Bartels (*Dental and Oral Surgery*), M. Lunin
Associate: B. N. Berg
Associate in Biochemistry: C. R. Harmison
Associates in Neuropathology: S. M. Aronson, S. Donahue, L. Geller
Research Associates: S. Fiala, H. Kaunitz, L. Zucker
Instructors: D. W. Benninghoff, W. A. Blanc
Instructors in Neuropathology: L. Allen, L. M. Geller
Assistants: A. M. Brown, J. F. Davenport, J. B. Henry, J. K. Herd, W. W. McLendon, R. L. Naeye, J. Reid
Lecturer in Medical Illustrating: A. Feinberg

At Bellevue Hospital:

Research Associate: J. B. Cromie

At Goldwater Memorial Hospital:

Associate Professor: M. Bevans (*Medicine*)

At Mary Imogene Bassett Hospital:

Instructor: C. A. Ashley

At Montefiore Hospital:

Professor: H. M. Zimmerman
Assistant Professor: T. H. Spaet
Instructor: J. I. Berkman

At Mt. Sinai Hospital:

Associate Professor: S. Otani

At Roosevelt Hospital:

Assistant Professors: W. W. Brandes, B. Kalfayan

At St. Luke's Hospital:

Assistant Professor: C. F. Begg

At White Plains Hospital:

Associate Professor: H. D. Kesten

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Pathology 101FST—General and special pathology. Lectures and laboratory. Second year. 14 pts. Professors Lucas, Smith, Stewart, and Vennart, and staff.

This course consists of a study of important pathological conditions, demonstrated by museum specimens and a very complete series of histological preparations. The course includes attendance at autopsies and the study of gross material with discussion of clinical histories one afternoon a week.

Pathology 102S—Neuropathology. Lectures and laboratory. Three hours a week for ten weeks. Second year. Professors Cowen and Wolf, and staff.

Pathology 103FS—Medicine-pathology case study. One hour a week, first and second trimesters. Second year. Members of the Departments of Medicine and Pathology.

This course consists of presentation of patients illustrating diseases studied in *Pathology 101FST* with a discussion of the etiology, lesions, and clinical findings.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Pathology 251–252—Research in pathology. Credit to be arranged.
Hours to be arranged.

Pathology 253–254—Research in chemical pathology. Credit to be arranged. Under the direction of Professor Zucker.
Hours to be arranged.

For additional courses see the announcement of the Faculty of Pure Science.

PEDIATRICS

Professor: R. McIntosh (*Executive Officer*)
Associate Professors: H. E. Alexander, C. M. Riley
Associate Professor of Pathology: D. H. Andersen
Associate Clinical Professors: J. T. Howell, C. L. Wood
Assistant Professors: P. A. di Sant' Agnese, R. C. Harris
Assistant Clinical Professors: H. S. Altman, S. Blumenthal, J. M. Brush, D. S. Damrosch, R. E. Moloshok, J. A. Wolff
Assistant Professor of Clinical Pediatrics: W. A. Silverman
Associates: W. A. Bauman, R. W. Culbert, M. M. Grumbach, M. Singer
Research Associate: K. Sprunt
Instructors: J. B. Ahouse, R. G. Ames, H. Anfanger, L. A. Boker, R. A. Davis, S. P. Griffiths, W. R. Kessler, J. H. Maroney, R. M. Mickey, D. R. Reed, M. R. Richards, M. H. Samuels, W. R. Smith, P. S. Strong, F. H. von Hofe, D. A. Wilcox, L. F. V. Wilking, Jr., A. G. Wilson, P. E. Wilson
Assistants: A. F. Ackerman, B. C. Berliner, S. Blatman, A. Blum, Jr., L. J. Cassard, W. M. Chemris, J. A. Costa, A. O. Dellenbaugh, C. R. Denning, R. U. Donovan, L. G. M. Fox, O. L. Frick, B. German, J. R. Guthrie, D. C. Hackett, W. E. Homan, P. Hudson, M. H. Jacobs, L. S. James (*Anesthesiology*), R. E. Jennings, J. E. Kalbacher, A. A. Macdonald, S. A. Mayer, D. J. Melia, K. M. Metcalf, W. L. Mitchell, G. Rapmund, R. C. Richards, A. P. Rosen, W. H. Smith, D. Stiles, V. A. Strong, E. Ufford, R. West, R. C. Wheeler
Research Assistant: G. Leidy

At Mary Imogene Bassett Hospital:

Associate Clinical Professor: T. C. Goodwin
Instructor: J. H. Cannon

At Mt. Sinai Hospital:

Clinical Professor: H. L. Hodes
Associate Clinical Professor: S. Karelitz
Instructors: A. L. Florman, D. Gribetz, A. Y. Sweet

At St. Luke's Hospital:

Assistant Clinical Professor: J. F. Eagle, Jr.

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Pediatrics 201–202—Introduction to pediatrics. Five and a half weeks. Third year. Professor Alexander and staff.

At Babies Hospital and Vanderbilt Clinic.

Mornings are devoted to conferences with various members of the Pediatric Staff on special topics and to the presentation and discussion of cases selected from the wards of Babies Hospital. The students work in the general Outpatient Clinic on three afternoons a week, and on one morning they are assigned to the Well Baby Clinic; once a week they are assigned in rotation to the Pediatric Service of Mount Sinai Hospital.

Pediatrics 203–204—Clinical clerkship in pediatrics. One month. Fourth year. Professor Riley and staff.

At Babies Hospital.

Student and hospital resident work closely as a team in the care of patients. The students take the history of each case and perform physical examinations. Opportunity is given for practice in the simpler diagnostic and therapeutic procedures customary on pediatric wards. In addition to regular ward rounds there are conferences on special topics and seminars on pediatric pathology with Professor Andersen and staff. On two afternoons a week the students are assigned to the Outpatient Clinic.

Pediatrics 207–208—Bedside instruction in the common communicable diseases. Two two-hour sessions. Third year.

At Bellevue Hospital.

PHARMACOLOGY

Professors: H. B. van Dyke (*Executive Officer*), S.-C. Wang
Assistant Professors: H. J. Bartelstone, P. Brazeau, F. G. Hofmann
Associate: S. B. Gertner

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Pharmacology 101ST—General and special pharmacology. One hour lecture or conference, second trimester; four hours lecture or conference and six hours laboratory, third trimester. Second year. 6 pts. The staff.

Pharmacology 202—Medical therapeutics and applied pharmacology. One conference a week for sixteen weeks. Fourth year. Third-year elective. Professors Hofmann and Southworth (*from Medicine*).

See *Medicine 209–210.*

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Pharmacology 201—Special methods in pharmacology. Hours and eligibility to be determined on consultation. The staff.

A series of conferences and advanced laboratory problems designed to prepare the student for research in pharmacology.

Pharmacology 229–230—Research in pharmacology. Eligibility to be determined after consultation. Hours and credits to be arranged. The staff.

Pharmacology 301—Seminar in pharmacology. No credit.

For advanced courses see the announcement of the Faculty of Pure Science.

PHYSICAL MEDICINE AND REHABILITATION

Professor: R. C. Darling (*Executive Officer*)
Professor of Physical Medicine: W. B. Snow
Associate Clinical Professor of Rehabilitation Medicine: A. D. Gurewitsch
Assistant Clinical Professor: M. Hoberman
Instructors: C. L. DeVictoria, M. J. Lota, S. Weber
Assistant Professor and Director of Training for Physical Therapists: M. E. Callahan
Assistant Professor and Director of Training for Occupational Therapists: M. L. Franciscus
Instructor and Associate Director of Training for Physical Therapists: G. L. Jameson
Instructor and Associate Director of Training for Occupational Therapists: V. T. Kilburn
Associate in Physical Therapy: K. T. San Julian
Associate in Occupational Therapy: E. Brokaw
Instructors in Physical Therapy: M. S. Cover, E. Hansen, B. Talmud
Instructors in Occupational Therapy: M. Abbott, D. H. Ericson, I. P. Robinault, A. R. Trei, T. L. Wellerson, H. P. White
Assistants in Physical Therapy: T. Corbitt, H. Vanderwalde

At Mt. Sinai Hospital:

Assistant Clinical Professor: W. Bierman

See announcement of Courses for Physical Therapists and Occupational Therapists.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Physical Medicine and Rehabilitation 201—Elective course in physical medicine and rehabilitation. Third year.

This course is offered to a limited number of students for special work during one quarter of the third year.

PHYSIOLOGY

Professors: M. I. Gregersen (*Executive Officer*), W. S. Root
Associate Professors: T. H. Allen, L. T. Cizek, W. L. Nastuk, W. W. Walcott
Assistant Professor: N. A. DiSalvo

Assistant Clinical Professor: H. A. Abramson
Instructors: A. S. Cain, H. Chien, L. Lukin, M. Nocenti, R. A. Rawson
Research Assistant: C. Pallavicini

At Mt. Sinai Hospital:

Assistant Clinical Professor: F. Hollander
Assistants: G. B. Cvijanovich, L. Levine, D. R. McIntyre, B. A. Olson

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Physiology 101Fo—Human physiology. Three hours lecture, one hour conference, and twelve hours laboratory a week. First year. 10 pts. Members of the staff.

Physiology 103Fo—Correlative clinic. First year.
See *Anatomy 114FFo.*

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Physiology 201—Advanced physiology. Professor Gregersen and staff.
Tu. Th. 3–5. Laboratory by arrangement.

History of physiology and modern experimental methods. The course includes practice in spectrophotometric and gasometric methods, neurophysiological procedures, surgical techniques, methods of measuring cardiac output, blood volume, etc.

Physiology 251–252—Research in physiology. Eligibility to be determined on consultation. Members of the staff.

For courses offered under the Faculty of Pure Science consult the Pure Science announcement.

PSYCHIATRY

Professors: F. J. Kallman, L. C. Kolb (*Executive Officer*), W. S. Langford, I. H. MacKinnon
Professor of Clinical Psychiatry: P. H. Hoch
Professors of Biochemistry: W. M. Sperry, H. Waelsch
Professors of Psychology: C. Landis, J. Zubin (*Biometrics*)
Clinical Professors: G. E. Daniels (*Medicine*), A. Kardiner, D. M. Levy, R. B. McGraw
Associate Professors of Clinical Psychiatry: W. A. Horwitz, P. Polatin
Associate Professor of Neuropathology: L. Roizin
Associate Clinical Professors: N. Ackerman, H. Bruch, G. Goldman, K. Kelley, H. R. Klein
Assistant Professor of Microbiology: N. Kopeloff
Assistant Professors of Neuropathology: G. Eros, M. Kaufman
Assistant Professors of Biochemistry: A. Lajtha, H. L. Meltzer, H. J. Strecher, B. Weiss
Assistant Clinical Professors: B. H. Balser, V. Bernard, B. Buchenholz, J. Cattell, G. A. Jervis, A. Karush, R. Moulton, L. Ovesey, B. L. Pacella, M. Sapirstein
Associates: A. B. Brush, W. A. Brooks, R. D. Craig, H. D. Dunton, R. Gilder, Jr., B. R. Easser, W. Goldfarb, H. L. Hall, S. Karlen, L. M. Kopeloff, J. P. Lambert, J. A. M. Meerloo, B. A. Pasquarelli, A. Schick, W. A. Schonfeld, E. S. Schreiber, R. A. Senescu,

D. Shapiro, R. Sobel, E. S. Tauber, R. Taylor, M. P. Torre (*Public Health*), J. Weber, E. Welsch

Associate in Medicine: B. S. Holland

Research Associates: G. B. Baroff, A. Falek, M. Gold, L. B. Kalinowsky, L. M. Kopeloff, J. D. Rainer, E. I. Strongin

Research Associates in Biochemistry: M. Berger, H. Sachs

Instructors: A. B. Adam, R. J. Carotenuto, H. Chartock, L. Cobliner, M. Cohen, J. A. Cook, Z. DeFries, H. D. DeWitt, D. B. Douglas, S. Dunaif, O. Frankel, L. Gidro-Frank (*Obstetrics and Gynecology*), A. I. Goldfarb, I. Harrison, W. Hochstetter, C. Hogan, M. J. D. Jameson, J. Kennedy, J. Lubart, R. A. MacKinnon, H. McHugh, R. J. Mearin, C. Moffett, M. Naftalin, J. F. Oliven, S. C. Post, H. Potter, E. L. Priest, A. A. Rosner, P. E. Ryberg, E. Savitsky, L. Scheinman, C. W. Socarides, W. Stewart, S. Stirt, M. O. Strahl, V. N. Wilking

Assistants: A. M. Bottino, W. A. Brooks, R. J. Campbell, J. Cederquist, R. W. W. Evans, H. G. Furth, M. Glusman, E. J. Hornick, M. M. Lawrence, S. Malitz, I. M. Marcus, A. Messer, B. Roth, D. Sank, M. H. Wodin

Lecturers: H. G. Birch, K. Goldstein, L. S. Kubie, J. A. P. Millet, S. Rado

At Creedmore State Hospital:

Assistant Clinical Professor: J. R. Whittier (*Neurology*)

At Manhattan State Hospital:

Assistant Clinical Professor: N. E. Stein

Instructor: H. C. B. Denber

At Mt. Sinai Hospital:

Clinical Professor: M. R. Kaufman

Lecturers: C. Fisher, P. Goolker

At Rockland State Hospital:

Research Associate: N. Kline

Research Assistants: Y. Taketomo, P. B. Vestergaard (*Neurology*)

At St. Luke's Hospital:

Associate Clinical Professor: J. Cotton

At the Institute for the Crippled and Disabled:

Instructors: L. A. Gelb, J. D. Sullivan, A. B. Szalita-Pemow

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Psychiatry 101FST—Introduction to human behavior. Twenty-two one-hour lectures and demonstrations concerned with the genetic, family, and cultural processes underlying healthy behavior, the nature of anxiety, and the psychological methods of adaptation to anxiety, emphasizing throughout the process of development from infancy through the various periods of maturity. First year. Professor Kolb and faculty.

Psychiatry 102S—Psychopathology. Eleven one-hour lectures and demonstrations with the use of audiovisual aids. Second year. 1 pt. Professor Horwitz and faculty.

Psychiatry 203–204—Clinical psychiatry. Fifteen hours clinical conferences. Clinical clerkships, twelve hours a week for eleven weeks at the N.Y. State Psychiatric Institute, Presbyterian Hospital, and Manhattan State Hospital. Third year. Professors Daniels, Horwitz, Langford, McGraw, MacKinnon, Polatin, and Stein, and clinical faculty.

Psychiatry 205—Clinical psychiatry: medical practice and special psychiatric problems, lectures, and demonstrations. One and one half hours a week for ten weeks. Also clinical supervision in group medical clinic. Fourth year. Professor Kolb and clinical faculty.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Psychiatry 219–220—Psychometric methods. Forenoons, twice a week. Psychiatric Institute.

Practical exercises in mental measurements. Limited to two students.

Psychiatry 221–222—Elective in psychiatry. Hours to be arranged. Third year. Professor Kolb.

At the Psychiatric Institute and Presbyterian Hospital.

SCHOOL OF PUBLIC HEALTH AND ADMINISTRATIVE MEDICINE

Public Health Practice:

Professor: W. C. Spring, Jr.
Associate Professors: M. W. Barnard, W. R. Brumfield, H. E. Hilleboe
Assistant Professors: M. Antell, A. J. Beckmann
Assistant Professor of Dental Health Practice: N. W. Chilton
Associate in Psychiatry: M. P. Torre

Administrative Medicine:

Professors: E. D. Barnett, R. E. Trussell (*Executive Officer*)
Associate Professor: M. Cherkasky, C. C. Clay
Associate Professor of Hospital Administration: B. C. MacLean
Assistant Professors: E. M. Bluestone, G. A. Silver
Research Associates: J. E. Bryan, R. B. Heiser, B. B. Palmer, F. W. van Dyke
Instructor: M. P. Shorney
Assistants: L. Bamberger, H. Baumgarten, Jr., V. M. Brown
Assistant in Hospital Administration: G. F. Billington
Research Assistant: N. M. Weiss
Administrative Assistant: L. Gerold

Public Health Education:

Professor: G. Rosen
Assistant Professor: I. S. Shapiro

Biostatistics:

Professor: J. W. Fertig
Instructor: A. P. Berger

Epidemiology:

Professor: E. G. Clark
Associate Professors: S. Frant, M. Greenberg, R. L. Vought

Research Associate: M. D. Schweitzer
Instructor: A. C. Gelman

Occupational Medicine:

Professor: L. J. Goldwater
Associate Professor: I. R. Tabershaw
Associate Professor of Nutrition: N. Jolliffe
Assistant Professor: B. Mintz

Sanitary Science:

Associate Professor: A. R. Jacobson

Tropical Medicine:

Professor of Parasitology: H. W. Brown
Associate Professor of Medical Entomology: R. W. Williams
Assistant Professor: H. B. Shookhoff
Assistant Professor of Parasitology: K. L. Hussey
Research Associate in Parasitology: K. F. Chan
Instructors: K. G. Dwork, M. M. Sterman

Lecturers: F. B. Amos, D. B. Ast, G. Baehr, A. J. Binkert, G. Bugbee, H. R. Cohen, P. M. Densen, W. R. Donovan, C. L. Erhardt, R. T. Fisher, R. S. Goodhart, A. E. Grosso, E. M. Gruenberg, E. Hayt, R. N. Kerst, M. Kleinfeld, J. H. Kinnaman, G. W. Larimore, S. S. Lifson, J. Masur, E. A. Mosso, B. B. Palmer, M. J. Plishner, P. J. Rafle, J. W. G. Rehn, C. G. Roswell, A. J. J. Rourke, L. Schneider, R. F. Sikes, J. E. Silson, R. P. Sloan, J. E. Snyder, J. G. Steinle, D. K. Tuller, B. M. Vance, B. Werne, R. A. Wyman

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Public Health 201—Statistical analysis of medical and public health data. One hour a week for ten weeks. First year. Professor Fertig.

Public Health 101S—Parasitic diseases: the protozoa, helminths, and arthropods of medical significance. Five hours lecture, laboratory, and demonstrations. Second year. 3 pts. Professor Brown and staff.

Public Health 203–204—Preventive medicine and public health. Six hours a week; lectures, seminars, public health clinics, and field work in public health and medical care for eleven weeks. Third year. Staff.

Public Health 207–208—Preventive medicine and public health. One hour a week for ten weeks. Fourth year. Staff.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

The School of Public Health and Administrative Medicine provides a wide variety of electives in public health practice, biostatistics, epidemiology, occupational medicine, parasitology, etc. Fourth-year students interested in pursuing further studies in preventive medicine and public health should consult the announcement of the School of Public Health and Administrative Medicine and confer with the professor concerned.

The announcement describes courses leading to the degrees of Master of Science, Master of Public Health, and Doctor of Public Health, and may be obtained at the School of Public Health and Administrative Medicine, 600 West 168th Street, New York 32, N.Y.

RADIOLOGY

Professors: J. Caffey, G. Failla (*Physics*), H. W. Jacox, E. H. Quimby (*Physics*), W. B. Seaman (*Executive Officer*)

Associate Professors: R. J. Guttmann, M. M. Kligerman, H. H. Rossi (*Physics*), R. Rugh (*Biology*), J. M. Taveras, J. S. Wells

Associate Professor of Clinical Radiology: C. W. Schwartz

Associate Professor of Clinical Ophthalmology: R. L. Pfeiffer

Assistant Professors: A. L. Bachman, D. J. Barnett, G. S. Schwarz

Associates: C. B. Braestrup, L. Rottenberg

Instructors: M. Alpert, D. Bate, M. H. Becker, F. M. Cummins, C. J. Dalton, K. Ellis, J. L. Jarvis, D. W. Johnson, S. A. Lough, S. H. Madell, J. M. Monaghan, J. M. Moynahan, J. Nadelhaft, R. Schlaeger, N. DuV. Tapley, E. A. Ten Eyck, R. S. Yalow

At Mary Imogene Bassett Hospital:

Assistant Clinical Professor: O. D. Sahler

At Hospital for Joint Diseases:

Associate: M. M. Pomeranz

At Mt. Sinai Hospital:

Associate Clinical Professors: S. Feitelberg (*Physics*), B. S. Wolf

Instructor: S. M. Silverstone

At Montefiore Hospital:

Associate Clinical Professor: S. Fineman

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Radiology 201–202—Diagnostic radiology. One hour a week for twenty-two weeks. Third year. Professors Caffey, Kligerman, Taveras, and Drs. Alpert, Cummins, Dalton, Ellis, Jarvis, Johnson, Madell, Monaghan, Moynahan, Nadelhaft, Schlaeger.

In this course typical films are demonstrated during medical and surgical clerkships (*Medicine 201–202* and *Surgery 204–205*).

Radiology 203–204—X-ray interpretation. Conferences four hours a week for four weeks. Fourth year. Professors Barnett, Caffey, Schwarz, Taveras, and Wells.

Radiology 205—Radiotherapy. Three hours. Third and fourth years. Professors Jacox and Kligerman. Two lectures given during the combined clinic series (*Medicine 205–206*).

Radiology 206—Biologic effects of ionizing radiation. Four one-hour lectures. Third year. Professors Jacox and Kligerman.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

ELECTIVE COURSES

Radiology 210—Radiologic physics. One lecture a week during the Winter Session. 1 pt. Professors Failla and Rossi.

This course is given for those wishing to familiarize themselves with the fundamental ideas of radiation physics. The following subjects are considered: atomic structure, electromagnetic radiations, radioactivity, absorption and scattering of radiation, and measurement of ionizing radiations.

Prerequisite: *Physics 111–112* and *Mathematics 104,* or their equivalents.

Radiology 211—Radioactive isotopes in biology and medicine. One lecture a week during the Spring Session. 1 pt. Professor Quimby.

Tu. 4.

This course is planned for those who expect to use radioactive isotopes as tracers in medical or physiological research, and for those who expect to cooperate in their therapeutic applications. Topics include basic theories of radioactivity, production and measurement of radioactive isotopes, safe handling and protection, tracer techniques, dosage calculations, and somewhat detailed studies of certain isotopes which are especially useful in this field.

Prequisite: *Radiology 210* or equivalent.

Radiology 212—Radiobiology. One lecture a week during the Spring Session. 1 pt. Professor Rugh.

Th. 4.

This course is intended for those whose training and interests are primarily in biology and related subjects, since it deals with the effects of ionizing radiations on biological systems. Some of the subjects discussed are: theories of interaction of radiation and matter; effects of radiations on genes, chromosomes, cells, tissues (e.g., blood and gonads), and whole bodies; effects on metabolism and growth; time-intensity relations; lethal factors and hazards; modification of effects and recovery from radiation injury; radioautographic and other techniques.

Prerequisite: *Radiology 210* or equivalent.

Radiology 213—Clinical radiology. Four- to six-week periods throughout the third year. Professors Kligerman and Taveras.

This course is a clinical clerkship in roentgen diagnosis and radiotherapy. It includes roentgen anatomy and technique, methods of film interpretation and fluoroscopy, and the diagnosis, treatment, and follow-up care of the patient with cancer.

SURGERY

Professors: V. K. Frantz, G. H. Humphreys II (*Executive Officer*), R. Lattes

Professors of Clinical Surgery: C. D. Haagensen, L. W. Sloan, T. W. Stevenson, Jr.

Associate Professor of Anatomy: M. R. Murray

Associate Professors of Clinical Surgery: A. H. Blakemore, R. A. Deterling, R. H. E. Elliott, Jr., D. V. Habif, H. D. Harvey, E. L. Howes, M. R. Porter, R. N. Schullinger

Associate Clinical Professor: H. S. F. Cooper

Assistant Professors: G. C. Godman, N. Lane

Assistant Professor of Biochemistry: L. S. Dietrich

Assistant Professors of Clinical Surgery: H. G. Barker, D. C. Bull, R. S. Grinnell, R. B. Hiatt, D. M. Ju, F. R. McAllister, R. L. Moore, G. Sanger, R. V. Santulli, J. Scudder, E. B. Self

Assistant Clinical Professors: J. Ferrer, E. N. Goodman, A. Himmelstein, J. A. Tamerin

Research Associates: D. Bloch, B. Johnson, G. Katz, M. S. Parshley, E. Peterson

Instructors: H. Auchincloss, Jr., R. H. Clauss, G. F. Crikelair, C. R. Feind, C. W. Findlay, F. P. Herter, H. F. Luddecke, W. B. Ober, J. Prudden, D. M. Shapiro, A. B. Voorhees, P. D. Wiedel, W. Woodruff

Research Assistants: H. H. Benitez, C. Morris, M. S. Schwartz

Assistants: S. B. Bhonslay, A. Rigau, J. B. Rodgers, H. D. Sirak, H. D. Yacoubian

At Bellevue Hospital:

Professor of Clinical Surgery: F. B. Berry[1]
Clinical Professors: K. M. Lewis, R. H. Wylie
Associate Clinical Professors: C. Lester, H. C. Maier
Assistant Clinical Professors: M. Chamberlain, R. S. Mueller, P. C. Potter, D. M. Weeks
Associates: J. F. Bagg, W. W. Heroy, H. A. Kingsbury, A. Lambert, T. S. Winslow
Instructors: J. Ford,[1] P. Kirschner, K. M. Lewis, Jr., A. Papas, H. C. Reusch, R. K. Snyderman, E. G. Stanley-Brown, W. A. Wichern, J. M. Wilson, Jr.
Assistant: M. Moley

At Mary Imogene Bassett Hospital:

Clinical Professor: J. H. Powers
Assistant Clinical Professor: J. Mithoefer
Instructor: A. Jaretzki III

At Mt. Sinai Hospital:

Clinical Professors: J. H. Garlock, A. S. W. Touroff

At Montefiore Hospital:

Clinical Professor: E. S. Hurwitt

At Roosevelt Hospital:

Clinical Professor: H. A. Patterson
Associate Clinical Professors: F. H. Amendola, J. E. Thompson

At St. Luke's Hospital:

Clinical Professor: H. A. Zintel
Assistant Clinical Professors: A. E. W. Ada, P. C. Morton, R. B. Stark
Instructors: H. F. Fitzpatrick, R. W. Frazer, W. G. Knox

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Surgery 101S—Introduction to surgery. One hour a week for eleven weeks. Second year. Professors Frantz, Harvey, Lattes, and staff.

Surgery 102T—Recitations, demonstrations, and clinic in principles of surgery. (Includes *Orthopedic Surgery 205–206.*) Six hours a week for ten weeks. Second year. Professors Frantz, Harvey, Lattes, and staff.

Surgery 201–202—Surgery lectures. One hour a week for twenty-three weeks. Third year. Professor Humphreys and staff.

Surgery 204–205—Surgical outpatient department and anesthesia. (Includes *Surgery 211–212, Radiology 201–202,* and *Orthopedic Surgery 203–204.*) Five mornings and five afternoons for five and a half weeks. Third year. Professor Humphreys and staff.

Surgery 209–210—Outpatient clinical clerkships. Two months, combined with *Medicine 207–208.* Fourth year. Professor Humphreys and staff.

The student has the opportunity to work five full days a week in Vanderbilt Clinic in a group practice program.

[1] On leave 1956–1957.

Surgery 211–212—Practical instruction in surgical pathology. Two hours a week, combined with *Surgery 204–205,* five and a half weeks. Third year. Professor Frantz.

Surgery 213–214—Clinical clerkship in surgery. Five days a week for two months. Fourth year. Professor Humphreys and staff. Can be taken at one of the following hospitals: Presbyterian, Roosevelt, St. Luke's, and Mary Imogene Bassett.

Surgery 217–218—Clinical clerkships at Bellevue Hospital. Fourth year. Professor Lewis and assistants. May be taken in place of *Medicine 221–222.*

Surgery 219–220—Diagnosis of cancer. Twelve lectures. Fourth year. Professor Haagensen.

ELECTIVE FOR THE DEGREE OF DOCTOR OF MEDICINE

Surgery 221–222—Research in surgical laboratory. For third- and fourth-year students during the college year and summer months. Professor Deterling and assistants.

Definite problems are assigned which may be distinct entities or phases of some of the larger problems being studied in the laboratory.

Surgery 225—Tissue culture as a research method. One hour lecture and three hours laboratory from November 1 to February 1, Professor Murray and assistants.

Conferences and individual instruction dealing with the structure and function of normal neoplastic cells, technique of tissue culture, and interpretation of results. For qualified graduate students.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

UROLOGY

Professor: J. K. Lattimer (*Executive Officer*)
Professor of Clinical Urology: G. W. Fish
Associate Clinical Professors: C. T. Hazzard, P. B. Hudson, M. M. Melicow, J. N. Robinson
Assistant Professor of Biochemistry: T. Price
Assistant Professor of Microbiology: H. Seneca
Associates: R. F. Seidel, T. J. Sullivan, R. C. Yeaw
Research Associates in Biochemistry: M. E. Lombardo, M. London
Instructors: S. Pulrang, R. J. Veenema, A. T. Willetts
Assistants: S. B. Braham, J. E. Bowers, A. L. Dean, J. T. Donovan, R. Kollmar, M. B. Pincus, T. A. Viscelli

REQUIRED FOR THE DEGREE OF DOCTOR OF MEDICINE

Urology 201–202—Clinical clerkships in urology, in the Squier Urological Clinic. Fourth year. Professors Lattimer and Fish, and staff.

This course consists of lectures, demonstrations, and surgical motion pictures illustrating the fundamental pathogenesis, diagnosis, and treatment of urological disorders. Cystoscopic diagnosis, Roentgen diagnosis, and pathological demonstrations are presented. Patients are studied on the wards, and a term paper is required.

For graduate courses communicate with the Dean's office, 630 West 168th Street.

SPECIAL FIELD: BIOPHYSICS

The degree of Doctor of Philosophy for work in the field of biophysics is under the

administration of the Joint Committee on Graduate Instruction through its Subcommittee on Biophysics of which the members are:

Shirley L. Quimby, *Professor of Physics, Chairman*
G. Failla, *Professor of Radiology (Physics)*
Edith H. Quimby, *Professor of Radiology (Physics)*
G. E. Kimball, *Professor of Chemistry*
D. Rittenberg, *Professor of Biochemistry*
W. S. Root, *Professor of Physiology*
T. Hayashi, *Associate Professor of Zoology*

The following course is required for the degree of Doctor of Philosophy:

Biophysics 202—Special problems and techniques in biophysics. Four hours spring session. 4 pts. Lectures by several officers of instruction of the Faculty of Medicine. *Given in 1956 and in alternate years thereafter.*
W. F. 4–6.

This course is designed to acquaint the student with the scope of biophysics and to give him an introduction to its special methods and techniques. The first group of topics includes basic methods such as spectroscopy, microscopy, photoelectric and diffraction phenomena, and the application of these to physiological problems of nerve and muscle activity, locomotion, heat and blood flow, and the special senses. These are followed by consideration of stable and radioactive isotopes, X rays, and the biological effects of radiation. Throughout the course, emphasis will be on applications to biological problems, not on methods or phenomena.

Prerequisite: *Physics 115–116, Mathematics 104, Chemistry 91–92,* and *Zoology 141,* or their equivalents.

Students may choose electives from selected courses in biochemistry, neurology, otolaryngology, physiology, and radiology in the College of Physicians and Surgeons, and in chemistry, mathematics, physics, and zoology at the Morningside campus. See specific departments in this announcement and in the announcement of the Faculty of Pure Science.

Prospective candidates for the degree of Doctor of Philosophy in the field of biophysics should consult the chairman of the subcommittee concerning required and optional courses and other specific requirements for the degree.

REFERENCE BOOKS AND TEXTBOOKS

The following list includes required and recommended books. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. *Students are advised against buying any books until specifically advised by the departments concerned.*

Gross Anatomy. Required: *Textbook of Anatomy,* Cunningham, $15; *Atlas of Descriptive Human Anatomy, Vol. III,* Sobotta, $17.50; Dorland's or Stedman's *Medical Dictionary,* $11.50.

Microscopic Anatomy. Required: *Bailey's Textbook of Histology* (13th ed.), Smith and Copenhaver, $9. Recommended but not required: *Textbook of Histology* (6th ed.), Maximow and Bloom, $10.

Neuroanatomy. Required: *Human Neuroanatomy,* (3d ed.), Strong and Elwyn, $7.50; *Laboratory Manual for Neuroanatomy,* Elwyn, $.75. Recommended but not required: *Functional Neuroanatomy,* Krieg, $9; *Neuroanatomy* (2d ed.), Mettler, $10.50; *The Anatomy of the Nervous System* (9th ed.), Ranson and Clark, $8.50.

Embryology. Required (one of the following): *Developmental Anatomy* (6th ed.), Arey, $10; *Human Embryology* (2d ed.), Patten, $12.

Biochemistry. Required: *Principles of Biochemistry,* White, Handler, Smith, Stetten, $15; *Laboratory Manual* (1956), Staff, $2.50.

Dermatology. Recommended but not required: *Diseases of the Skin* (4th ed.), Andrews, $13.50; *Practical Dermatology,* Lewis, $7.50; *Modern Clinical Syphilology* (3d ed.), Stokes, $12; *Syphilis, Its Course and Management,* Thomas, $5.50.

Medicine. Recommended but not required: *Principles and Practice of Physical Diagnosis* (2d ed.), Martini, $2; *Clinical Hematology,* Wintrobe, Lea, and Febiger (3d ed.), $12.50; *Physiological Basis of Medical Practice* (4th ed.), Best and Taylor, $10; *Biochemistry of Disease* (2d ed.), Bodansky, Macmillan, $12; *Textbook of Medicine* (8th ed.), Cecil and Loeb, $13; *Principles of Internal Medicine,* Harrison, $15; *Classical Descriptions of Disease,* Major, $7. Reference textbooks: *Loose-Leaf Medicine,* Oxford, $150.

Microbiology. Required: *Laboratory Manual in Microbiology and Immunology,* $3; *Bacterial and Mycotic Infections of Man* (2d ed.), edited by Dubos, $7.50; *Viral and Rickettsial Infections of Man* (2d ed.), edited by Rivers, $7.50.

Neurology. Required: *The Clinical Examination of the Nervous System,* Monrad-Krohn, $7.50, or *The Neurologic Examination,* DeJong, $18; and one of the following: *Textbook of Neurology,* Merritt, $12.50; *Neurology,* Grinker, $12.50; *A Textbook of Clinical Neurology,* Wechsler, $9.50; *Diseases of the Nervous System,* Brain, $8.50. Recommended but not required: *Basis of Clinical Neurology,* Brock, $7; *Fundamentals of Clinical Neurology,* Merritt, Mettler and Putnam, $6; *Neuroanatomy,* Mettler, $10.50; *Diseases of the Nervous System in Infancy, Childhood and Adolescence,* Ford, $18.50.

Obstetrics and Gynecology. Required for gynecology (one of the following): *Textbook of Gynecology* (6th ed.), Curtis and Huffman, $11; *Textbook of Gynecology*

(4th ed.), Novak, $9. Required for obstetrics (one of the following): *Williams' Obstetrics* (10th ed.), Eastman, $12.50; *Principles and Practice of Obstetrics* (10th ed.), Greenhill-De Lee, $12.50; *Obstetrical Practice* (5th ed.), Beck, $10.

Ophthalmology. Recommended: *May's Diseases of the Eye* (21st ed. rev. by C. A. Perera), $6; *Gifford's Textbook of Ophthalmology* (5th ed.), F. H. Adler, $7.50.

Otolaryngology. Required (one of the following): *Diseases of the Nose, Throat and Ear,* Boise, $6; *Otology, Rhinology and Laryngology,* Ballenger, $8; *Specialties in General Practice* (chapters on ear, nose and throat), Cecil, $15.

Pathology. Required for *101FST* (one of the following): *Textbook of Pathology,* Moore, $13; *Textbook of Pathology,* Boyd, $12; *Human Pathology,* Karsner, $15; *Pathology,* Anderson, $16.

Pediatrics. Required (one of the following): *Holt Pediatrics,* Holt and McIntosh, $15; *Textbook of Pediatrics,* W. E. Nelson, $15. Recommended but not required: *Growth and Development of Children,* Watson and Lowrey (2d ed.), $7; *Pediatric X-ray Diagnosis* (3d ed.), Caffey, $28.

Pharmacology. Required: *The Pharmacological Basis of Therapeutics,* Goodman and Gilman (2d ed.), $17.50.

Physiology. Required: *Samson Wright's Applied Physiology* (9th ed.), $10.

Psychiatry. Required: *Textbook of Psychiatry* (4th ed.), Noyes, $7; or, *Introduction to Psychiatry,* English and Finch, 1954. Recommended but not required: *Fundamentals of Psychiatry,* Strecker, $4.

Public Health. Recommended: *Textbook of Clinical Parasitology* (1952), Belding, $12.50; *Preventive Medicine and Public Health* (2d ed., 1952), W. G. Smillie, $7.50; *Textbook of Preventive Medicine,* H. R. Leavell and E. G. Clark, $8; *Rosenau, Preventive Medicine and Hygiene* (7th ed.), Kenneth F. Maxcy, $14.

Radiology. Recommended but not required: *Outline of Roentgen Diagnosis,* Rigler, $6.50; *Radiology for Medical Students,* Hodges, Lampe, and Holt, $6.75.

Surgery. Required: *Introduction to Surgery,* Frantz and Harvey, $2.50; *A Manual of Fractures and Dislocations,* Stimson, $3.25. Recommended but not required: *Textbook of Surgery* (4th ed.), Christopher, $12; *General Surgery* (5th ed.), Cole and Elman, $11; *Inhalation Anesthesia,* Guedel, $4; *Surgery,* Homans, $8; *The Management of Fractures,* Key and Conwell, $15; *Fractures* (2 vols.), Watson-Jones, $20.

Urology. Recommended but not required: *Clinical Urology,* McCrea (1948), $6.50; *Synopsis of Genitourinary Diseases* (4th ed., 1950), Dodson, $4.

A microscope of standard make fitted with the following attachments will fill the student's requirements:

1. Triple nosepiece
2. Abbe or variable focus condenser
3. 10x and 6x oculars
4. 16mm. and 4mm. objectives
5. Oil immersion lens

The cost of a suitable reconditioned microscope varies from $100 to $230 depending on the age, make, and model. The standard prices of new microscopes range from $356 to $602. Each student should also provide himself with a substage lamp. Microscopes may be rented at $6 a month or $52 for a school year. A limited supply of binoculars are available also for rental at $12 a month, or $100 a school year. Students are required to secure the usual instruments needed for the various diagnostic examinations of patients.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 A.M. to 5:30 P.M.

GENERAL INFORMATION

BARD HALL CLUB

Alumni and members of the staff of the College of Physicians and Surgeons are entitled to use the facilities of Bard Hall, the residence for medical students at 50 Haven Avenue, upon payment of the membership fee of $10. The facilities include lounge rooms, dining and grillrooms, gymnasium, squash courts, and swimming pool. Application for membership and guest cards should be made at the Bard Hall desk.

STUDENT HEALTH SERVICE

Daily office hours are held by the Student Health Service for sick students in Room 2-200, Vanderbilt Clinic. Members of the Health Service are available to attend sick students who live near the Medical Center. Students requiring hospitalization will be taken care of either in the wards of the Medical Center or elsewhere under a hospitalization insurance policy.

UNIVERSITY PRIVILEGES

All students enrolled in the Medical School enjoy the privileges and facilities of the University campus, including access to the University libraries, gymnasium, Placement Bureau, and other activities.

REGISTRATION OF STUDENT ORGANIZATIONS

Student organizations may be granted the privileges of the use of names in which the name of the University is embodied or suggested and the use of University rooms for meetings and of bulletin boards for announcements only if they have filed their registration blanks, furnishing the Dean with lists of officers and other executive members, statements of purposes, copies of constitutions and bylaws, and information concerning the nature of any affiliation or connection with non-University organizations.

Blanks for the registration of student organizations, other than those for which the responsibility is assumed by a faculty or department of instruction, may be obtained from the Dean's office.

THE ALPHA OMEGA ALPHA HONORARY FRATERNITY

The Alpha Omega Alpha honorary fraternity is a nonsecret, fourth-year, medical honor society, membership in which is based upon scholarship and moral qualifications. A chapter of this society was organized at the College of Physicians and Surgeons in 1907.

ALUMNI ASSOCIATION OF THE COLLEGE OF PHYSICIANS AND SURGEONS

Membership in the Alumni Association of the College of Physicians and Surgeons is open to any graduate of the College in good professional standing who will notify the Secretary, Frederick E. Lane, 630 West 168th Street, New York 32, N.Y., of his desire to join. Annual membership dues are $5.00; life membership, $100. Application blanks for membership may be obtained from the cashier at the time of application for the degree of Doctor of Medicine.

REGULATIONS

STUDENTS

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved powers of the President, in the dean of each faculty and the director of the work of each administrative board.

HONOR CODE

Academic and intellectual integrity are accepted principles in the medical profession. An Honor Code, created and administered by the student body, is the formal acknowledgement of this understanding at the College of Physicians and Surgeons. Each student is expected to abide by it.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing and not subject to discipline who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the Dean. Students withdrawing are required to notify the Registrar in writing immediately.

The Dean may, for reasons of weight, grant a leave of absence to a student in good standing.

REQUIREMENTS FOR PROMOTION

1. A student may be advanced or readmitted to the second, third, or fourth academic year of the medical course or readmitted to the first year only upon recommendation of the faculty under which he has studied during the preceding year.
2. The Faculty of Medicine reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions of study in this school.

Students are classified for readmission or promotion under the following headings:

I. Recommended for advancement

II. Recommended for readmission to the same class

III. Recommended neither for advancement nor readmission
   A. Because of academic failure
   B. Because they fall under paragraph 2 of requirements for promotion

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, work unsatisfactory.

REQUIREMENTS FOR DEGREES

The course for the degree of Doctor of Medicine consists of the subjects shown in the Summary of Studies, on pages 21 and 22, all of which are required unless otherwise stated. Elective courses are not counted for credit toward the degree.

Diplomas for the following degrees are issued at Commencement, in October, and in February, upon completion of requirements: Doctor of Medicine, Doctor of Dental Surgery, Master of Science in public health fields and in nursing, Master of Public Health, Doctor of Public Health, Doctor of Medical Science, and Bachelor of Science in nursing, physical therapy, occupational therapy, and dental hygiene. Dates for the filing of applications for all these degrees are given in the Academic Calendar.

Announcements of the Schools of Dental and Oral Surgery and of Public Health and Administrative Medicine, of Nursing, and of the Courses for Physical and Occupational Therapists outline requirements for the respective degrees.

A student graduating from this medical school is eligible for admission to licensing examinations in all states and territories of the United States, providing he meets requirements for internship in those states requiring hospital experience before licensure. He is also eligible for admission to the examinations of the National Board of Medical Examiners.

OFFICERS OF INSTRUCTION OF THE FACULTY OF MEDICINE

PROFESSORS, ASSOCIATE PROFESSORS, AND ASSISTANT PROFESSORS INCLUDING THOSE IN THE GRADUATE PROGRAM

RAMSON, HAROLD A., *Assistant Clinical Pro-ssor of Physiology;* A.B., Columbia, 1920; M.D., 923

KERMAN, NATHAN, *Associate Clinical Professor Psychiatry;* A.B., Columbia, 1929; M.D., 1933

A, ALEXANDER E. W., *Assistant Clinical Pro-ssor of Surgery;* B.A., Queen's (Ontario), 1923; .D., 1926

LERSBERG, DAVID, *Assistant Clinical Professor Medicine;* M.D., Vienna, 1921

ATE, FREDERICK J., *Associate Professor of natomy;* A.B., Columbia, 1932; Ph.D., 1949

DRIDGE, ALBERT H., *Clinical Professor of Ob-etrics and Gynecology;* B.S., Syracuse, 1915; .D., 1918

XANDER, HATTIE E., *Associate Professor of diatrics;* A.B., Goucher, 1923; M.D., Johns Hop-ns, 1930

ANACH, MARY E., *Assistant Professor of Nurs-g;* B.S., Columbia, 1932; A.M., 1937

EN, THOMAS H., *Associate Professor of Phys-logy;* A.B., Iowa, 1936; Ph.D., 1941

AMIRANO, MARIO, *Assistant Professor of Neu-logy;* M.D., Chile, 1946

MAN, HARRY S., *Assistant Clinical Professor Pediatrics;* M.D., New York University, 1921

MANN, FRANZ, *Clinical Professor of Otolaryn-logy;* M.D., Vienna, 1925

ENDOLA, FREDERICK H., *Associate Clinical ofessor of Surgery;* B.S., College of the City of ew York, 1923; M.D., Cornell, 1927

DERSEN, DOROTHY H., *Associate Professor of thology;* A.B., Mt. Holyoke, 1922; M.D., Johns opkins, 1926; Med.Sc.D., Columbia, 1935

DREWS, GEORGE C., *Clinical Professor of Der-atology;* A.B., Cornell, 1912; M.D., Columbia, 18

ELL, MICHAEL, *Assistant Professor of Public ealth Practice;* M.D., Long Island College, 1926; .P.H., Harvard, 1939

ENUCCI, ARTHUR J., *Associate Clinical Pro-ssor of Medicine;* B.S., College of the City of ew York, 1926; M.D., Columbia, 1930

AR, VIRGINIA, *Professor of Anesthesiology;* B., Mt. Holyoke, 1929; M.D., Columbia, 1933

LEBAUM, EDMUND, *Associate Professor of ental Anatomy;* D.D.S., New York College of entistry, 1922

DEN, HOWARD A., *Assistant Professor of entistry;* B.S., Fordham, 1943; D.D.S., Columbia, 46

HLEY, DANA W., *Professor of Clinical Medi-ne;* B.S., Chicago, 1911; M.D., Johns Hopkins, 15

RS, HERBERT D., Jr., *Assistant Clinical Pro-sor of Dentistry;* A.B., Columbia, 1929; D.D.S., 31

HMAN, ARNOLD L., *Assistant Professor of diology;* B.S., New York University, 1931; M.D., 34

EY, FREDERICK R., *Clinical Professor of Med-icine;* A.B., Princeton, 1924; M.D., Johns Hopkins, 1928

BAKER, DANIEL C., Jr., *Clinical Professor of Otolaryngology;* A.B., Pennsylvania, 1929; M.D., Jefferson, 1933; Med.Sc.D., Columbia, 1939

BALSER, BENJAMIN A., *Assistant Clinical Professor of Psychiatry;* A.B., Rochester, 1926; A.M., Harvard, 1927; M.D., Buffalo, 1931; Med.Sc.D., Columbia, 1937

BARACH, ALVAN L., *Clinical Professor of Medicine;* M.D., Columbia, 1919

BARKER, HAROLD G., *Assistant Professor of Clinical Surgery;* A.B., Utah, 1939; M.D., Pennsylvania, 1943

BARKER, LESLIE P., *Assistant Clinical Professor of Dermatology;* M.D., Columbia, 1927

BARNARD, MARGARET W., *Associate Professor of Public Health Practice;* A.B., Smith, 1917; M.D., Cornell, 1923; D.P.H., Johns Hopkins, 1935

BARNETT, DONALD J., *Assistant Professor of Radiology;* Asso.Sc., Texas A.&M., 1935; M.D., Baylor, 1939

BARNETT, E. DWIGHT, *Professor of Administrative Medicine;* A.B., Stanford, 1921; M.D., 1928

BARTELS, HENRY A., *Assistant Professor of Oral Pathology;* B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927

BARTELS, JOHANNES, *Assistant Professor of Anesthesiology;* A.B., Amsterdam, 1936; B.S., 1938; M.D., Johns Hopkins, 1947

BARTELSTONE, HERBERT J., *Assistant Professor of Pharmacology;* B.S., College of the City of New York, 1942; D.D.S., Columbia, 1945

BECKMANN, ALBERT J., *Assistant Professor of Public Health Practice;* A.B., Cornell, 1938; M.S., North Carolina, 1941; M.D., Wake Forest, 1945

BEGG, CHARLES F., *Assistant Professor of Pathology;* A.B., Boston, 1935; M.D., Harvard, 1939

BEHRE, JEANETTE A., *Assistant Professor of Biochemistry;* A.B., Vassar, 1913; Ph.D., Cornell, 1920

BEISER, SAM M., *Assistant Professor of Microbiology;* Ph.D., Columbia, 1951

BENFIELD, JAMES W., *Assistant Clinical Professor of Dentistry;* D.D.S., Columbia, 1945

BERKE, RAYNOLD N., *Assistant Clinical Professor of Ophthalmology;* A.B., Minnesota, 1926; M.B., 1928; M.D., 1929

BERNARD, VIOLA W., *Assistant Clinical Professor of Psychiatry;* B.S., New York University, 1933; M.D., Cornell, 1936

BERRY, FRANK B., *Professor of Clinical Surgery;* A.B., Harvard, 1914; M.D., 1917

BEUBE, FRANK E., *Clinical Professor of Dentistry;* L.D.S., D.D.S., Toronto, 1930

BEVANS, MARGARET, *Associate Professor of Pathology;* A.B., Trinity, 1931; M.D., Columbia, 1935

BICKERMAN, HYLAN, *Assistant Clinical Professor of Medicine;* A.B., Columbia, 1934; M.D., New York University, 1939

BIERMAN, WILLIAM, *Assistant Clinical Professor of Physical Medicine and Rehabilitation;* A.B., Columbia, 1915; M.D., 1917

BILOON, SOL, *Assistant Clinical Professor of Medicine;* B.S., College of the City of New York, 1915; M.D., Cornell, 1919

BLAKEMORE, ARTHUR H., *Associate Professor of Clinical Surgery;* B.S., William and Mary, 1918; M.D., Johns Hopkins, 1922

BLOCH, ROBERT G., *Clinical Professor of Medicine;* M.D., Munich, 1921

BLUESTONE, EPHRAIM M., *Assistant Professor of Administrative Medicine;* B.S., Columbia, 1913; M.D., 1916

BLUMENTHAL, SIDNEY, *Assistant Clinical Professor of Pediatrics;* B.S., Iowa, 1933; M.D., 1933

BORDLEY, JAMES, III, *Clinical Professor of Medicine;* Ph.B., Yale, 1923; M.D., Johns Hopkins, 1927

BRADLEY, STANLEY E., *Associate Professor of Medicine;* A.B., Johns Hopkins, 1934; M.D., Maryland, 1938

BRAGG, EVERETT C., *Assistant Clinical Professor of Orthopedic Surgery;* A.B., Cornell, 1936; M.D., 1940

BRANDES, WALTER W., *Assistant Professor of Pathology;* A.B., North Central, 1922; M.S., Northwestern, 1926; M.D., 1927; Ph.D., 1930

BRAZEAU, PAUL, *Assistant Professor of Pharmacology;* A.B., Columbia, 1949; Ph.D., 1952

BRICKNER, RICHARD M., *Assistant Clinical Professor of Neurology;* B.S., Columbia, 1917; M.D., 1923

BROWN, DONALD E., *Assistant Professor of Pathology;* M.D., Harvard, 1943

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TAMERIN, JOSEPH A., *Assistant Clinical Professor of Surgery;* B.S., New York University, 1928; M.D., Cornell, 1932

TANCHESTER, DAVID, *Clinical Professor of D tistry;* D.D.S., New York University, 1921

TANENBAUM, STUART W., *Assistant Professor Microbiology;* B.S., College of the City of N York, 1944; Ph.D., Columbia, 1951

TAPLEY, DONALD F., *Assistant Professor of Me cine;* B.S., Acadia, 1948; M.D., Chicago, 1952

TAUSIG, DANIEL P., *Assistant Professor of An thesiology;* A.M., Columbia, 1933; M.D., 1937

TAVERAS, JUAN M., *Associate Professor of Ra ology;* B.S., Normal School, Santiago, 1937; M.I Santiago, 1943; M.D., Pennsylvania, 1949

TAYLOR, GURNEY, *Assistant Clinical Professor Medicine;* A.B., Williams, 1925; M.D., Penns vania, 1930

TAYLOR, HOWARD C., *Professor of Obstetrics a Gynecology;* Ph.B., Yale, 1920; M.D., Columb 1924

THOMPSON, JAMES E., *Associate Clinical Profes of Surgery;* A.B., Texas, 1924; M.D., 1927

THOMSON, K. JEFFERSON, *Associate Clinical P fessor of Medicine;* M.D., Harvard, 1931

TILLMAN, ALVIN J. B., *Assistant Professor Clinical Obstetrics and Gynecology;* A.B., Colu bia, 1924; M.D., 1927

TOTTEN, ARTHUR C., *Professor of Dentist* D.D.S., Pennsylvania, 1926

TOUROFF, ARTHUR S. W., *Clinical Professor Surgery;* B.S., New York University, 1921; M.I Columbia, 1925

TRUSSELL, RAY E., *DeLamar Professor of Adm istrative Medicine; Associate Dean (Public Healt* A.B., Iowa, 1936; M.D., 1941; M.P.H., Jol Hopkins, 1947

TUOTI, FERDINAND A., *Assistant Clinical Proj sor of Dentistry;* D.M.D., Harvard, 1928

TURNER, JOSEPH C., *Associate Professor of Cli cal Medicine;* A.B., Columbia, 1929; M.D., 19 Med.Sc.D., 1940

VAN DYKE, HARRY B., *Hosack Professor of Ph macology;* B.S., Chicago, 1918; Ph.D., 19 M.D., Rush, 1923

VENNART, GEORGE P., *Assistant Professor of thology;* A.B., Wesleyan, 1948; M.D., Roches 1953

VERLIN, WILLIAM A., *Assistant Clinical Profes of Dentistry;* A.B., Columbia, 1929; D.D.S., 1

VICALE, CARMINE T., *Associate Professor of Cl cal Neurology;* A.B., New York University, 19 M.D., 1933

VON LACKUM, WILLIAM H., *Assistant Clin Professor of Orthopedic Surgery;* B.S., Iowa, 19 M.D., 1918; Med.Sc.D., Columbia, 1935

VOSBURGH, GILBERT J., *Associate Professor Obstetrics and Gynecology;* A.B., Princeton, 19 M.D., Johns Hopkins, 1942

WAELSCH, HEINRICH B., Professor of *Biochen try;* M.D., Prague, 1929; Ph.D., 1930

WALCOTT, WILLIAM W., *Associate Professor Physiology;* A.B., Yale, 1933; Ph.D., Colum 1944

WALTNER, JULES, *Associate Professor of Clin Otolaryngology;* M.D., University of Debre (Hungary), 1933

WANG, SHIH-CHUN, *Professor of Pharmacolo* B.S., Yenching, 1931; M.D., Peiping Union Me cal College, 1935; Ph.D., Northwestern, 1940

WASSERMAN, LOUIS R., *Assistant Clinical Pro sor of Medicine;* A.B., Harvard, 1931; M.D., Ru 1935

WATERS, EDWARD G., *Assistant Clinical Profe*

Obstetrics and Gynecology; Ph.B., Yale, 1919; .D., Harvard, 1922

TKINS, MELVIN B., *Assistant Professor of Clin-al Orthopedic Surgery;* A.B., Utah, 1930; M.B., orthwestern, 1935; M.D., 1936

EKS, DAVID M., *Assistant Clinical Professor of rgery;* M.D., Michigan, 1927

GRIA, RENÉ, *Assistant Professor of Medicine;* .D., Liège, 1936; Med.Sc.D., Columbia, 1945

INGARTEN, BERTHOLD, *Assistant Clinical ofessor of Medicine;* M.D., Frankfort, 1922

ISS, BENJAMIN, *Assistant Professor of Biochem-ry;* B.S., Iowa, 1944; Ph.D., Illinois, 1949

ITZEN, HYMAN G., *Assistant Clinical Profes-r of Neurology;* A.B., New York University, 34; M.D., 1938

LLS, JOSEPHINE S., *Associate Professor of Radi-ogy;* A.B., Barnard, 1932; M.D., Columbia, 1938

RNER, SIDNEY C., *Associate Professor of Clini-l Medicine;* A.B., Columbia, 1929; M.D., 1932; ed.Sc.D., 1937

RTHEIM, ARTHUR R., *Assistant Professor of edicine;* A.B., Dartmouth, 1935; M.D., Jefferson, 39

EELER, MAYNARD C., *Clinical Professor of phthalmology;* A.B., Stanford, 1926; M.D., Co-mbia, 1929; Med.Sc.D., 1938

ITMAN, CLIFFORD L., *Assistant Clinical Pro-ssor of Dentistry;* D.D.S., Maryland, 1927

ITTIER, JOHN R., *Assistant Clinical Professor Psychiatry;* A.B., Harvard, 1939; M.D., Colum-a, 1943

.COX, HERBERT B., Jr., *Assistant Clinical ofessor of Medicine;* A.B., Yale, 1930; M.D., olumbia, 1934

.DE, DELPHINE, *Assistant Professor of Nursing;* .S., Columbia, 1926

.LIAMS, ROGER W., *Associate Professor of edical Entomology;* B.S., Illinois, 1939; M.S., 41; Ph.D., Columbia, 1947

.SON, IRWIN B., *Associate Professor of Bio-emistry;* B.S., College of the City of New York, 41; A.M., Columbia, 1947; Ph.D., 1948

WINKELSTEIN, ASHER, *Assistant Clinical Profes-sor of Medicine;* B.S., Syracuse, 1915; M.D., 1917

WOLF, ABNER, *Professor of Neuropathology;* A.B., Columbia, 1923; M.D., 1926

WOLF, BERNARD S., *Associate Clinical Professor of Radiology;* B.S., New York University, 1932; M.D., 1936

WOLFF, JAMES A., *Assistant Clinical Professor of Pediatrics;* A.B., Harvard, 1935; M.D., New York University, 1940

WOOD, CHARLES L., *Associate Clinical Professor of Pediatrics;* B.S., New York University, 1926; M.D., Yale, 1930

WOODMAN, De GRAAF, *Clinical Professor of Otolaryngology;* B.S., Cornell, 1917; M.D., 1926

WYLIE, ROBERT H., *Clinical Professor of Surgery;* Ph.B., Yale, 1927; M.D., Columbia, 1931

YAHR, MELVIN D., *Assistant Professor of Clinical Neurology;* A.B., New York University, 1939; M.D., 1943

ZAMENHOF, STEPHEN, *Associate Professor of Bio-chemistry;* M.E., Warsaw Polytechnic, 1933; D.Tech.Sc., 1936; Ph.D., Columbia, 1949

ZEGARELLI, EDWARD V., *Associate Professor of Dentistry;* A.B., Columbia, 1934; D.D.S., 1937; M.S., Chicago, 1942

ZIMMERMAN, HARRY M., *Professor of Pathology;* B.S., Yale, 1924; M.D., 1927

ZINTEL, HAROLD A., *Clinical Professor of Surgery;* B.S., Akron, 1934; M.D., Pennsylvania, 1938

ZUBIN, JOSEPH, *Professor of Psychology (Bio-metrics);* A.B., Johns Hopkins, 1921; Ph.D., Co-lumbia, 1932

ZUCKER, THEODORE F., *Assistant Professor of Pathology;* A.B., Concordia, 1907; M.S., Illinois, 1912

SLANETZ, CHARLES A., *Curator of Animal Hus-bandry;* B.S., Connecticut, 1922; M.S., 1923; Ph.D., Yale, 1926

For names of associates, lecturers, and assistants, see departmental rosters (pages 23 ff.)

HOSPITAL APPOINTMENTS

CLASS OF 1956

Andrews, David—Presbyterian Hospital, New York City
Barry, Peter E.—Hartford Hospital, Hartford, Conn.
Bartlett, Raymond C.—Hartford Hospital, Hartford, Conn.
Baruch, Hans H.—Mt. Sinai Hospital, New York City
Beatrice, Marianne A.—Grace-New Haven Community Hospital, New Haven, Conn.
Black, Paul H.—Massachusetts General Hospital, Boston, Mass.
Bramwell, Edith M.—Presbyterian Hospital, New York City
Brodsky, John P.—Bellevue Hospital, New York City
Brown, Edward O.—Roosevelt Hospital, New York City
Brown, Roy E.—Bellevue Hospital, New York City
Buker, Robert H.—Gorgas Hospital, Canal Zone
Burka, Edward R.—Presbyterian Hospital, New York City
Burland, John A.—Mary Hitchcock Memorial Hospital, Hanover, N. H.
Carver, Susan T.—New York Hospital, New York City
Casey, James F.—St. Vincent's Hospital, New York
Chastain, Charles W.—Mary Imogene Bassett Hospital, Cooperstown, N. Y.
Clark, Lealand L., Salt Lake City General Hospital, Salt Lake City, Utah
Clements, Neil C.—Bellevue Hospital, New York City
Cobb, Oliver E.—Presbyterian Hospital, New York City
Cochran, George V.—Presbyterian Hospital, New York City
Copenhaver, Richard M.—Philadelphia General Hospital, Philadelphia, Pa.
Curtis, Frederick K.—Bellevue Hospital, New York City
Davidson, Jere F.—Bellevue Hospital, New York City
Dawson, Keith G.—St. Luke's Hospital, New York City
Donaldson, Charles L.—Public Health Service
Dubin, Donald T.—Bronx Municipal Hospital, Bronx, N. Y.
Dunn, Leo J.—Cincinnati General Hospital, Cincinnati, Ohio
Edelstein, Bernard—Bronx Municipal Hospital, Bronx, N. Y.
Elderkin, Janet S.—Bellevue Hospital, New York City
Farrer, Sanford M.—Mt. Sinai Hospital, New York City
Federowicz, Thomas E.—Roosevelt Hospital, New York City
Feldman, Ronald—Bronx Municipal Hospital, Bronx, N. Y.
Franklin, David N.—Bellevue Hospital, New York City
Futterman, Edward H.—Bellevue Hospital, New York City
Ganem, Kenneth J.—Massachusetts Memorial Hospital, Boston, Mass.
Gentile, Ralph L.—Mt. Sinai Hospital, New York City
Gilbert, Robert A.—University of Minnesota Hospital, Minneapolis, Minn.
Gleason, Donald M.—St. Luke's Hospital, New York City
Goodale, Robert L., Jr.—Boston City Hospital, B ton, Mass.
Green, Arthur—Bronx Municipal Hospital, Bro N. Y.
Haber, Edgar—Massachusetts General Hospital, B ton, Mass.
Hardin, Byron—Presbyterian Hospital, New York C
Hatfield, Wendell B.—Presbyterian Hospital, N York City
Heady, William C.—Genesee Hospital, Rochest N. Y.
Healey, William V.—Presbyterian Hospital, N York City
Heckman, Margaret G.—St. Luke's Hospital, N York City
Herrick, Robert H.—San Francisco Hospital, S Francisco, Calif.
Hirsch, Robert S.—Lenox Hill Hospital, New Y City
Hodgman, Christopher—Strong Memorial Hospit Rochester, N. Y.
Hogan, Vincent M., Jr.—St. Luke's Hospital, N York City
Hovsepian, Jeannette—University of Illinois Resear Chicago, Ill.
Hulka, Jaroslav F.—Roosevelt Hospital, New Y City
Jacobs, Jerry C.—Bellevue Hospital, New York C
Jassie, Marvin P.—Mt. Sinai Hospital, New York C
Jonas, Saran—Bellevue Hospital, New York City
Kaderabek, Donal J.—Bellevue Hospital, New Y City
Katz, Fred H.—Presbyterian Hospital, New York C
Kaufman, Richard S.—Mt. Sinai Hospital, New Y City
Kohn, Kurt W.—Mt. Sinai Hospital, New York Ci
Kurke, Nancy B.—St. Elizabeth Hospital, Washi ton, D. C.
Lagomarsino, Fred J.—Brooklyn Hospital, Brookl N. Y.
Lawrence, Mary C.—Bronx Municipal Hospit Bronx, N. Y.
Leddy, John P.—Boston City Hospital, Boston, Ma
Lee, Burton J., III—Bellevue Hospital, New Y City
Lewis, Frederic B.—Mt. Sinai Hospital, New Y City
Liachowitz, Claire H.—Hospital of the University Pennsylvania, Philadelphia, Pa.
Liptzin, Yelva—Cook County Hospital, Chicago,
Litzky, Gerald M.—University of Chicago Clini Chicago, Ill.
Lobell, Stephen M.—Montefiore Hospital, Bro N. Y.
Mahew, Shirley R.—Rhode Island Hospital, Pro dence, R. I.
Maslansky, Robert A.—Minneapolis General Hospit Minneapolis, Minn.
McLoughlin, Patrick T.—Army Medical Service H pital, Valley Forge, Pa.
Meier, Carl F.—Albany Hospital, Albany, N. Y.
Miller, Barnett M.—Bellevue Hospital, New Y City
Montana, Jerome A.—St. Francis Hospital, Trent N. J.

troy, Robert E.—Buffalo General Hospital, Buf-
lo, N. Y.
re, John L.—Naval Hospitals, Bethesda, Md.
re, Thomas J.—Presbyterian Hospital, New York
ty
laney, John—Saginaw General Hospital, Saginaw,
ich.
rs, Wayne A.—Bellevue Hospital, New York City
Howard R.—Bellevue Hospital, New York City
ps, Robert J.—University of Chicago Clinics, Chi-
go, Ill.
ernack, Frederick—Jackson Memorial Hospital,
iami, Fla.
:, Hugh S., Jr.—Naval Hospitals, San Diego,
lif.
am, Louis R.—Cincinnati General Hospital, Cin-
nati, Ohio
vin, Howard M.—Strong Memorial Hospital,
chester, N. Y.
ter, Ralph W.—Roosevelt Hospital, New York
ty
nson, Theodore—Passavant Memorial Hospital,
icago, Ill.
baum, Jerome C.—Cincinnati General Hospital,
ncinnati, Ohio
n, Louis F.—St. Luke's Hospital, New York City
n, Walton K. T.—New York Hospital, New York
ty
es, Charles G.—University Hospitals, Columbus,
hio
rman, Joseph A.—Children's Medical Center,
oston, Mass.
ored, L. Arne—Roosevelt Hospital, New York
ty
a, Christopher—Brooklyn Hospital, Brooklyn,
. Y.
ting, Joseph G.—Presbyterian Hospital, New
ork City

Tarnay, Thomas J.—Bellevue Hospital, New York City
Taylor, Nathan S.—Strong Memorial Hospital, Rochester, N. Y.
Trayner, Edwin M.—Roosevelt Hospital, New York City
Triedman, M. Howard—Mt. Sinai Hospital, New York City
Truong, Xuan T.—Indiana University Medical Center, Indianapolis, Ind.
Tulevech, Charles B.—Jefferson Davis Hospital, Houston, Tex.
Tyson, Robert L.—Bronx Municipal Hospital, Bronx, N. Y.
Vandersluis, Alfred B.—Strong Memorial Hospital, Rochester, N. Y.
Walzer, Richard A.—Mt. Sinai Hospital, New York City
Watt, Donald J.—Strong Memorial Hospital, Rochester, N. Y.
Weiss, William P.—Boston City Hospital, Boston, Mass.
Wendt, Vernon E.—Detroit Receiving Hospital, Detroit, Mich.
Williams, Barbara—Grace-New Haven Community Hospital, New Haven, Conn.
Williams, Frank S.—Veterans Administration Hospital, San Francisco, Calif.
Winner, William—Bronx Municipal Hospital, Bronx, N. Y.
Wosnitzer, Morey—Mt. Sinai Hospital, New York City
Wu, Clyde Y. C.—Strong Memorial Hospital, Rochester, N. Y.
Yankopoulos, Nicholas—St. Luke's Hospital, New York City
Yardley, Jack M.—Indiana University Medical Center, Indianapolis, Ind.

REGISTER OF STUDENTS

FOURTH-YEAR CLASS—CLASS OF JUNE, 1957

Adler, Gerald — New York City
A.B., Columbia, 1951
Altman, Ronald — Brooklyn, N.Y.
A.B., Swarthmore, 1953
Ambrose, Robert B. — Short Hills, N.J.
A.B., Princeton, 1953
Andersen, Leon O. — Brooklyn, N.Y.
A.B., Harvard, 1951
Armstrong, Donald — Trenton, N.J.
A.B., Lehigh, 1953
Arnow, Lewis — New Rochelle, N.Y.
A.B., Harvard, 1953
Barrett, Stephen J. — New York City
A.B., Columbia, 1954
Bauman, Gene — Coytesville, N.J.
A.B., Columbia, 1953
Berg, Judith Leah — Jackson Heights, N.Y.
A.B., Hunter, 1947
Bertsch, Robert G. — Glasgow, Mont.
A.B., Carleton, 1953
Bettigole, Richard E. — New York City
A.B., Yale, 1953
Bilbao, Marcia Kepler — Rochester, Minn.
B.S., Minnesota, 1952
Bockol, Joel M. — Philadelphia, Pa.
B.S., Haverford, 1953
Boname, John R. — Rye, N.Y.
A.B., Yale, 1953
Bono, Vincent H., Jr. — Brooklyn, N.Y.
A.B., Columbia, 1953
Boulay, Roger J. — Fall River, Mass.
B.S., Tufts, 1950
Breen, Francis J. — Woodhaven, N.Y.
A.B., Columbia, 1953
Brown, Gordon E. — East Grand Rapids, Mich.
A.B., Kenyon, 1953
Bryson, Michael F. — Tenafly, N.J.
A.B., Cornell, 1953
Buchwald, Henry — New York City
A.B., Columbia, 1954
Bucknam, Charles A. — Waterville, Me.
B.S., Bates, 1953
Burkhart, Charles B. — Woodsfield, Ohio
A.B., Yale, 1953
Burnell, George M. — New York City
A.B., Arago (France), 1949;
B.S., Columbia, 1953
Chandler, Stephen V. — Hackensack, N.J.
A.B., Harvard, 1953
Danielski, Edward F., Jr. — Greenfield, Mass.
A.B., Harvard, 1953
Davis, John S., Jr. — Haddonfield, N.J.
A.B., Princeton, 1953
Deaton, Hugo L. — Baltimore, Md.
B.S., Haverford, 1953
Dede, Anthony — Brooklyn, N.Y.
A.B., New York University, 1953
Dische, Renate — New York City
B.S., Immaculate, 1941;
Ph. D., Columbia, 1953
Drake, George H., Jr. — Maplewood, N.J.
A.B., Lafayette, 1953
Ertel, Norman H. — Brooklyn, N.Y.
A.B., Harvard, 1953
Faverio, Charles D., Jr. — Jackson Heights, N.Y.
B.S., Manhattan, 1953
Finke, Stanley R. — New York City

Freeman, Richard G. — White Plains, N.
A.B., Yale, 1953
Gerber, Donald A. — Brooklyn, N.
A.B., Columbia, 1953
Ginsburg, Iona H. — Brooklyn, N.
A.B., Vassar, 1953
Gregory, Charles Hardy — Galveston, Te
A.B., Texas, 1953
Grossman, Robert G. — New York C
A.B., Swarthmore, 1953
Gutmann, Alice — New York C
A.B., Wellesley, 1952
Hammer, Earle I. — Utica, N.
A.B., Michigan, 1953
Harter, Donald H. — Kew Gardens, N.
A.B., Pennsylvania, 1953
Hermann, John S. — Brooklyn, N.
A.B., Harvard, 1953
Hinds, Manuel J. A. — New York C
B.S., Fordham, 1953
Hirsh, Charles H. — Brooklyn, N.
A.B., Brown, 1953
Hyde, Richard W. — Bedford, N.
A.B., Yale, 1953
Jackman, Allan E. — Brooklyn, N.
A.B., Columbia, 1953
Javid, Jamshid — Fort Lee, N
B.S., College of the City of New York, 1953
Jewett, Frank S. — Southport, Co
A.B., Yale, 1953
Johnson, Mayo — New York C
A.B., Dartmouth, 1953
Kelly, Eugene R. — Peekskill, N.
A.B., Dartmouth, 1950;
A.M., Pennsylvania, 1952
Kennedy, Paul A. — Tenafly, N
A.B., Holy Cross, 1953
Kessler, Susan R. — New York C
A.B., Vassar, 1953
Kimberg, Daniel V. — New York C
A.B., Washington and Jefferson, 1953
Koff, Arnold M. — Brooklyn, N.
A.B., Adelphi, 1953
Kwit, Robert B. — Bronx, N.
A.B., Harvard, 1953
Lafer, Charlotte Ziskind — Glens Falls, N.
A.B., Rochester, 1953
Lafer, Dennis J. — Maplewood, N
B.S., Haverford, 1953
Lazor, Michael Z. — Tarrytown, N.
A.B., Williams, 1953
Leach, Robert E. — New York C
A.B., Princeton, 1953
Lerner, Burton A. — New York C
A.B., Columbia, 1953
Linsky, Ronald M. — Kew Gardens, N.
A.B., Columbia, 1953
Lyle, Carl B., Jr. — Rogersville, Te
A.B., Princeton, 1953
McDonagh, Thomas J. — New York C
B.S., College of the City of New York, 1953
Mahoi, Moses M. — Sierra Leone, W. Afr
A.B., Indiana Central, 1950
Mancusi-Ungaro, Pier L. — Newark, N
A.B., Princeton, 1953
Mason, James L. — El Paso, T
A.B., Yale, 1952
Metzger, Henry — New York C
A.B., Rochester, 1953

ıey, Vert — Pittsburgh, Pa.
B., Princeton, 1953
:ing, Paul K. — Tarzana, Calif.
er, Raymond D. — Chatham, N.J.
S., Bates, 1953
olson, Denis F. — New York City
B., Columbia, 1953
ck, Martin — Brooklyn, N.Y.
B., Hobart, 1953
:by, John W. — Fayetteville, N.C.
S., Davidson, 1953
rne, Alan W. — Summit, N.J.
B., Princeton, 1953
, Lyman A. — West Hartford, Conn.
B., Yale, 1953
owski, Stanley F. — Philadelphia, Pa.
B., Columbia, 1953
, Joan M. — New Canaan, Conn.
B., George Washington, 1948;
M., Bryn Mawr, 1950
:ck, Isobel Kogel — Forest Hills, N.Y.
B., Vassar, 1953
ıck, Simeon — New York City
B., Columbia, 1954
Stephen L. — St. Louis, Mo.
B., Princeton, 1950
e, John C. — Waverly, Iowa
B., Carleton, 1953
ıond, Samuel — New York City
B., Swarthmore, 1941;
.D., Pennsylvania, 1945
y, Robert J. — Brooklyn, N.Y.
S., Fordham, 1953
ıgos, William C. — Lowell, Mass.
B., Yale, 1953
ardson, John W. — Oklahoma City, Okla.
B., Yale, 1953
ey, Katherine E. — New York City
B., Vassar, 1945; A.M., Columbia, 1948
rts, Clifford E., Jr. — Seneca, Md.
B., Haverford, 1953
rts, John M. — Hamden, Conn.
B., Yale, 1953
nson, Dwight R. — Mendham, N.J.
B., Cornell, 1953
nberg, Stanley E. — New York City
B., Dartmouth, 1954
n, Robert B. — Mahopac, N.Y.
B., Columbia, 1953
von, Ruth Ann J. — New Castle, Ind.
B., Indiana, 1950
ders, Bartlett M. — New York City
B., Columbia, 1953
ra, John J. — West Haven, Conn.
S., Yale, 1953
:n, Ruth E. — Jamaica, N.Y.
B., Wellesley, 1953
ds, Charles E. — Silver Springs, Md.
B., Yale, 1953
h, Jeanne — Duluth, Minn.
B., Barnard, 1953
;, Temple B. — Louisville, Ky.
B., Williams, 1953
:ss, Eric — Flushing, N.Y.
B., Yale, 1953
!uf La, Tenki Sangmu — Darjeeling, India
S., Calcutta, 1951
or, Sterling P. — Washington, D.C.
S., Yale, 1953
ger, Donald M. — Brooklyn, N.Y.
B., Princeton, 1953

Vorhaus, Elaine F. — New York City
A.B., Barnard, 1953
Wallace, Robert B. — Washington, D.C.
A.B., Columbia, 1953
Walzer, Robert S. — Brooklyn, N.Y.
A.B., Columbia, 1953
Weiner, Robert M. — Swampscott, Mass.
A.B., Harvard, 1953
Weser, Elliot — New York City
A.B., Columbia, 1953
Wharton, Ralph N. — Brookline, Mass.
A.B., Harvard, 1953
Wheeler, William M. — Chestnut Hill, Mass.
A.B., Harvard, 1953
Wilson, Peter G. — New York City
A.B., Columbia, 1953
Wohl, Martin J. — Brooklyn, N.Y.
A.B., Harvard, 1953
Zarem, Harvey A. — Savannah, Ga.
A.B., Yale, 1953
Zuckerman, Frederick — New York City

Fourth Year: Class of June, 1957 113

THIRD-YEAR CLASS—CLASS OF JUNE, 1958

Allen, John Lawrence — Summit, N.J.
B.S., Massachusetts Institute of Technology, 1954
Ames, Richard Pollard — Northampton, Mass.
A.B., Williams, 1954
Arida, Edward Juad — Brooklyn, N.Y.
A.B., Colgate, 1954
Aron, Alan Milford — White Plains, N.Y.
B.S., Tufts, 1954
Ashworth, John Sheriden — Richmond, Va.
A.B., Princeton, 1954
Atwood, William Goodson, Jr. — Carrollton, Mo.
A.B., Harvard, 1954
Barondes, Samuel Herbert — Brooklyn, N.Y.
A.B., Columbia, 1954
[1]Barth, Donald Edward — New York City
A.B., Columbia, 1954
Barzel, Uriel Shimon — Haifa, Israel
A.M., Hebrew University, 1951;
B.S., Columbia, 1954
Beck, Mary Ellen — Cleveland, Ohio
A.B., Radcliffe, 1954
Blabut, Robert Joseph — Dunellen, N.J.
A.B., Princeton, 1954
Boies, Lawrence Randall, Jr. — Hopkins, Minn.
A.B., Harvard, 1954
Brackett, John William, Jr. — Concord, N.H.
A.B., Columbia, 1954
Brander, Jerome Henry — Cedarhurst, N.Y.
A.B., Columbia, 1954
Bransome, Edwin Dagobert, Jr. — Rumson, N.J.
A.B., Yale, 1954
Brenner, Richard Wolff — Jersey City, N.J.
A.B., Princeton, 1954
Britten, John Sidney — New York City
B.S., Yale, 1954
Brown, James Ballantine — New York City
B.S., Rutgers, 1953
Burger, Karl — Brooklyn, N.Y.
A.B., Columbia, 1954
Campbell, Robert Goetze — New Canaan, Conn.
A.B., Colgate, 1954
Charlton, Maurice H. — Oxford, England
M.A., Oxford, 1950

[1] Withdrew.

Cherry, Sheldon Harold — Brooklyn, N.Y.
A.B., Columbia, 1954
Clift, George Vincent — Lake Peekskill, N.Y.
B.S., St. Lawrence, 1954
Collins, Daniel Joseph, Jr. — Haverhill, Mass.
A.B., Harvard, 1954
Cooper, Herbert L. — Far Rockaway, N.Y.
A.B., Columbia, 1955
Crago, Harry Robert, Jr. — Schenectady, N.Y.
A.B., Princeton, 1954
[1]Dale, Richard — Columbus, Ohio
A.B., Bowdoin, 1954
DeBellis, Robert H. — Great Neck, N.Y.
B.S., Queens, 1951
Delaney, Harry M. — New York City
A.B., Columbia, 1954
Dennis, Brown W. — Macon, Ga.
B.S., Davidson, 1954
Dougan, Jerome Wayne — Western Springs, Ill.
A.B., Yale, 1954
Dulany, Virginia Ann — Fruitland, Md.
A.B., Bryn Mawr, 1954
Edelman, Frederic Lewis — Brooklyn, N.Y.
A.B., Princeton, 1954
Edelman, Werner, Joseph — West Englewood, N.J.
A.B., Fordham, 1954
Finkelstein, James D. — Rockville Centre, N.Y.
A.B., Harvard, 1954
Forde, Kenneth A. — New York City
B.S., College of the City of New York, 1954
Forland, Marvin — Irvington, N.J.
A.B., Colgate, 1954
Friendly, David Stern — New York City
A.B., Carleton, 1954
Galton, Barry B. — New York City
A.B., Yale, 1954
Gaynor, Evelyn — New York City
A.B., Hunter, 1952
Gilbert, Arnold — New York City
A.B., Harvard, 1954
Goldman, William Herman — Brooklyn, N.Y.
B.S., Tufts, 1954
Gottlieb, Arlan Jay — New York City
A.B., Columbia, 1954
Green, Lawrence Perry, Jr. — Houghton, N.Y.
A.B., Houghton, 1954
Gresham, Glen Edward — Bethany, W. Va.
A.B., Harvard, 1953
Hardy, James H., III — Havertown, Pa.
A.B., Harvard, 1952
Harris, Paul Donald — West Englewood, N.J.
A.B., Princeton, 1954
Harris, Peyton R., Jr. — New York City
A.B., Harvard, 1953
Hitchcock, John — Los Angeles, Calif.
A.B., Hamilton, 1954
Hnat, Richard Frederick — Elizabeth, N.J.
A.B., Princeton, 1954
Hofreuter, Don Henry — Wheeling, W. Va.
A.B., Princeton, 1954
Hopewell, William Scott — Cincinnati, Ohio
A.B., Yale, 1954
Horwitz, Bert Stuart — Brooklyn, N.Y.
A.B., Columbia, 1954
Hunt, Winslow Robert — Detroit, Mich.
A.B., Chicago, 1946; A.M., 1950
Jewell, James Hyland, Jr. — Pittsburgh, Pa.
A.B., Lehigh, 1954

[1] Withdrew.

Johnson, Theodore Herbert — New Britain, C
A.B., Harvard, 1954
Jurkowitz, Lawrence — College Point, N
A.B., Harvard, 1953
Kaiser, Gerard Alan — Brooklyn, N
A.B., Princeton, 1954
Kane, William James — Brooklyn, N
A.B., Holy Cross, 1954
Kantor, Joseph — Yonkers, N
A.B., Columbia, 1954
Kantrowitz, Paul Alan — Brooklyn, N
A.B., Swarthmore, 1954
Kaplan, Norman Lionel — New York
A.B., Wesleyan, 1954
Kazemi, Homayoun — Teheran,
A.B., Lafayette, 1954
Kim, Byong Mok — Glendora, C
A.B., California, 1953
Korenman, Stanley George — Brooklyn, N
A.B., Princeton, 1954
Landau, Benjamin Barry — Stamford, C
A.B., Yale, 1954
Lazerson, Alan Martin — Rochester, N
A.B., Rochester, 1954
Leland, Oliver Stevens, Jr. — West Newton, M
A.B., Harvard, 1954
Lindberg, Donald A. B. — Brooklyn, N
A.B., Amherst, 1954
Malawista, Stephen Evan — Pound Ridge, N
A.B., Harvard, 1954
Marx, Marvin Henry — Sappington,
A.B., Princeton, 1954
Miller, Ronald Baker — Los Angeles, C
A.B., Princeton, 1954
Morley, Thomas James — Huntington, N
A.B., Princeton, 1954
Morris, Thomas Quinlan — Yonkers, N
B.S., Notre Dame, 1954
Neave, Charles — New Canaan, C
A.B., Yale, 1954
Norton, Lawrence Walter — Sterling,
A.B., Colgate, 1954
Passloff, A. Stephen — New York
A.B., Columbia, 1954
Patterson, Andrew Henry — Bronxville, N
A.B., North Carolina, 1954
Pellman, Carl Meyer — Brooklyn, N
A.B., Amherst, 1954
Perzin, Karl Herman — North Bergen,
A.B., Columbia, 1954
Pincus, Ralph Albert — Brooklyn, N
B.S., Brooklyn, 1954
Porder, Michael S. — Arlington, M
A.B., Harvard, 1954
Richter, Evelyn Birkeland — Seattle, W
A.B., Washington, 1953
Ridlon, Herrick Clark — Bangor,
A.B., Bowdoin, 1954
Roffwarg, Howard Philip — New York
A.B., Columbia, 1954
Rubinstein, Morton K. — Indianapolis,
A.B., Adelphi, 1951
A.M., Brooklyn, 1952
Santoro, Benjamin Timothy — Cornwall-on-Hudson, N
A.B., Yale, 1953
Schaefer, Robert Earl — Denver, C
A.B., Columbia, 1954
Scharer, Lawrence Leslie — Rego Park, N
A.B., Columbia, 1954

s, Sim Warren — Woodmere, N.Y.
B., Yale, 1954
ıberg, David — Memphis, Tenn.
B., Columbia, 1954
, Thomas Michael — Florence, Mass.
B., Holy Cross, 1952
y, Robert Walter — Nutley, N.J.
B., Columbia, 1954
l, Sara Ethel — White Plains, N.Y.
S., Tufts, 1954
er, William — Chicopee Falls, Mass.
B., Yale, 1954
lman, Harold Barry — Brooklyn, N.Y.
B., Columbia, 1954
son, Boudinot, Jr. — Greenwich, Conn.
S., Columbia, 1955
ıss, Arthur J. — Brooklyn, N.Y.
B., Brooklyn, 1953
kler, Allen Rogers Carter — Louisville, Ky.
B., Yale, 1951
l, Norman — Brooklyn, N.Y.
B., Columbia, 1954
erday, Charlotte Graves — New York City
B., Vassar, 1954
bald, Thomas J. — Port Washington, N.Y.
S., Fordham, 1953
mons, Richard Palmer — Upper Montclair, N.J.
B., Ohio Wesleyan, 1950
e, Allan Lawrence — Scarsdale, N.Y.
B., Yale, 1954
Cleve, Robert Baldwin — Moberly, Mo.
B., Princeton, 1954
ker, Ernest Andrew — Forest Hills, N.Y.
B., Oberlin, 1954
son, Richard Merz — South Orange, N.J.
B., Harvard, 1954
hsler, Elise C. — Forest Hills, N.Y.
S., Queens College, 1954
ks, Walter Grant — Dalton, Mass.
.B., Williams, 1954
ner, Daniel Lee — St. Albans, N.Y.
S., Union College, 1954
r, James Henry, III — Bloomfield, N.J.
.B., Princeton, 1954
r, William Strickland — Louisville, Ky.
.B., Louisville, 1954
ss, Carl Austin — New York City
.B., Holy Cross, 1954
te, Jules — New York City
.B., Columbia, 1954
te, Richard Laverne — Sacramento, Calif.
.B., Princeton, 1951
cke, John Alan — New York City
.B., Columbia, 1954
cox, Donald F. — Greenfield, Mass.
.B., Yale, 1953
enberg, Phillip — Brooklyn, N.Y.
.B., Harvard, 1954

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SECOND-YEAR CLASS—CLASS OF JUNE, 1959

n, Fred Huntley, Jr. — Wadesboro, N.C.
.S., Davidson, 1955
lebaum, William Schwartz — New York City
.B., Hunter, 1955
er, Lester — Staten Island, N.Y.
.B., Columbia, 1951
ett, C. Redington, Jr. — Greenwich, Conn.
.B., Yale, 1955

Baum, Richard Samuel — Detroit, Mich.
A.B., Amherst, 1955
Befeler, David — Long Valley, N.J.
A.B., Columbia, 1955
Benjamin, William B. — Brooklyn, N.Y.
A.B., Columbia, 1955
Berkman, Peter Morris — New York City
A.B., Harvard, 1955
Brittin, Geoffrey Mellor — Bergenfield, N.J.
Burks, William Parnelle — Elizabeth, N.J.
A.B., Princeton, 1955
Byrne, Earl Buckingham — Shaker Heights, Ohio
B.S., Princeton, 1954
Cantwell, Nelson Henry — Buffalo, N.Y.
B.S., Canisius, 1945; M.S., Fordham, 1948; Ph.D., Fordham, 1952
Carter, James Rose, Jr. — New York City
A.B., Princeton, 1955
Chase, Richard Allen — South Orange, N.J.
A.B., Chicago, 1952
Civan, Mortimer Mordecai — Brooklyn, N.Y.
A.B., Columbia, 1955
Clark, Cornelius John G. — New York City
A.B., Harvard, 1952
Cohen, Howard — New York City
A.B., Washington and Jefferson, 1951
Collier, Robert Harrison — Indianapolis, Ind.
A.B., Princeton, 1955
Collins, John Austin — New York City
A.B., Fordham, 1955
Constantin, LeRoy Liberal — Clifton, N.J.
A.B., Columbia, 1955
Cukier, Daniel Simon — New York City
B.S., College of the City of New York, 1955
Davidoff, Frank Fisher — New Canaan, Conn.
A.B., Harvard, 1955
Davidson, Charles Bailey — Portsmouth, N.H.
B.S., Yale, 1955
Druss, Richard George — New York City
A.B., Yale, 1955
Dunne, Peter Benjamin — Washington, D.C.
A.B., Harvard, 1955
Edgar, Malcolm Shepherd — Summit, N.J.
A.B., Princeton, 1955
Eleuteri, Amerigo John — Trenton, N.J.
A.B., Princeton, 1955
Epstein, Manfred David — New York City
A.B., New York University, 1955
Faust, Kenneth Joseph — Shamokin, Pa.
A.B., Lehigh, 1955
Ferber, Andrew Samuel — New York City
B.S., Wisconsin, 1955
First, Robert Alan — Gambier, Ohio
A.B., Kenyon, 1955
Foulke, John David — Steubenville, Ohio
A.B., Kenyon, 1955
Freeman, Guy Gilmore — Flushing, N.Y.
A.B., Columbia, 1955
Gilfillan, John Thomas, Jr. — New York City
B.S., U.S. Naval Academy, 1944; M.B.A., Harvard, 1949
Ginsberg, George L. — Fall River, Mass.
A.B., Brown, 1955
Ginsberg, Stanley Arthur — Far Rockaway, N.Y.
A.B., Amherst, 1955
Goodman, Beverly June — Baltimore, Md.
A.B., Goucher, 1954
Gordon, I. Bradley — Brooklyn, N.Y.
A.B., Vermont, 1955
Grainger, David William, Jr. — Niles, Ohio
B.S., Yale, 1955

Grosof, Jessica — Brooklyn, N.Y.
A.B., Wellesley, 1955
Gudmundsen, Borre Landaas — New York City
B.S., U.S. Merchant Marine Academy, 1950
Gutmann, Ludwig — Farmingdale, N.J.
A.B., Princeton, 1955
Harris, Donald Lee — Forest Hills, N.Y.
B.S., Syracuse, 1950
Herskovic, Teodoro — Mexico, D.F., Mexico
A.B., Harvard, 1955
Hilles, Linda — New York City
A.B., Barnard, 1955
Hillman, Robert Swart — Brooklyn, N.Y.
B.S., Tufts, 1955
Hollander, Charles S. — New York City
A.B., Columbia, 1955
Hulka, Barbara Sorenson — New York City
A.B., Radcliffe, 1952; M.S., Juilliard, 1954
Izard, Mark Whitaker — New York City
A.B., Columbia, 1954
Jesse, Mary Jane — New Canaan, Conn.
A.B., Nazareth, 1939
Jones, Ellyn Palmer — Princeton, N.J.
A.B., Wooster, 1955
Jones, Robert Holmes — Macon, Ga.
B.S., Davidson, 1955
Justice, James W. — Clinton, Tenn.
A.B., Yale, 1954
Kane, Kendall Kent — Dover, Ohio
A.B., Princeton, 1955
Kanter, Ira Edward — Newton, Mass.
A.B., Haverford, 1955
Kaplan, Edward Steven — Memphis, Tenn.
A.B., Yale, 1955
Keller, Jean Bohnet — Bronxville, N.Y.
B.S., Cornell, 1955
Kundel, Harold Louis — Jamaica, N.Y.
A.B., Columbia, 1955
Lietman, Paul Stanley — Cuyahoga Falls, Ohio
A.B., Western Reserve, 1955
Linwood, Richard Arnold — Bellmore, N.Y.
A.B., Yale, 1955
London, Frederick Allan — New York City
A.B., Princeton, 1955
Ludes, Bernard Francis — Valley Stream, N.Y.
B.S., Rensselaer Polytechnic Institute, 1955
MacDonald, Carlton A., Jr. — Baldwin, N.Y.
A.B., Princeton, 1954
McConnell, Donald Verne — Toronto, Ohio
A.B., Princeton, 1955
McHugh, Burton Peek — Bronxville, N.Y.
A.B., Harvard, 1954
McKinney, Alexander Stuart — New York City
A.B., Princeton, 1955
Michelsen, Walter James, Jr. — Salt Lake City, Utah
A.B., Columbia, 1951
Middleton, Augustus Loftus, Jr. — Sumter, S.C.
A.B., Princeton, 1952
Miller, Orlando Phil — Tulsa, Okla.
A.B., Yale, 1955
Moscarella, Alfred Anthony — Spring Valley, N.Y.
A.B., Colgate, 1955
Mott, Peter Dodge — Washington, D.C.
A.B., Princeton, 1955
Mueller, Mark Noble — Englewood, N.J.
A.B., Colgate, 1955
Muiznieks, Ansis — Princeton, N.J.
B.S., Columbia, 1955
Munsick, George Washington — Morristown, N.J.
Munsie, William Johnson — Manchester, Conn.
B.S., Tufts, 1955

Myers, Joseph Kieffer, Jr. — Akron, (
A.B., Princeton, 1955
Nesti, Richard P. — West New York,
A.B., Columbia, 1954
Nourok, David S. — Brooklyn, N
B.S., College of the City of New York, 1955
Petersen, Robert Allen — St. Albans, N
B.S., Queens, 1955
Phillips, Gene Marshall — Middletown, (
A.B., Princeton, 1955
Pines, Joseph — New York
A.B., Yale, 1955
Pi-Sunyer, F. Xavier — Montclair,
A.B., Oberlin, 1955
Pittman, Fred Estes — Cleveland, N
A.B., Yale, 1955
Plaut, Thomas F. — Dayton, (
A.B., Yale, 1955
Prescott, Richmond — New York
A.B., Harvard, 1949; LL.B., Harvard, 1952
Pressman, Peter I. — New York
A.B., Columbia, 1955
Prothero, Sherman Richard — Springfield, M
B.S., Bates, 1955
Pugatch, Donald — Richmond Hill, N
A.B., Columbia, 1955
Quesenberry, Robert Oscar — Hinton, W
A.B., West Virginia, 1955
Reiss, Robert Marshall — New York
A.B., Columbia, 1951
Robbins, Lee N. — New York
A.B., Barnard, 1955
Roome, Norman Sterling — New York
A.B., Columbia, 1955
Rosen, Samuel Morton — Paterson,
A.B., Hamilton, 1955
Rosenberg, Arthur Henry — Ventnor,
A.B., Amherst, 1955
Rosenfield, Allan G. — Brookline, M
A.B., Harvard, 1955
Schieffelin, John Winterbotham — White House Station,
A.B., Harvard, 1954
Schwartz, Arnold — New York
A.B., Columbia, 1955
Shaw, William Vare — Wynnewood,
A.B., Williams, 1955
Sigler, Paul Benjamin — Rockaway Beach, N
A.B., Princeton, 1955
Simon, Bennett — Brooklyn, N
A.B., Harvard, 1955
Slack, Warner Vincent — Upper Montclair,
A.B., Princeton, 1955
Smith, Martin Jay — Long Beach, N
A.B., Hofstra, 1955
Smith, Thomas G. — Le Grange,
A.B., Emory, 1953
Solomon, Sheila Horn — New York
B.S., McGill, 1953
Spitzer, Kenneth H. — Skaneateles, N
B.S., Hobart, 1955
Stinnes, Veronica M. — Haverford,
A.B., Pembroke, 1955
Storm, George — New Canaan, C
A.B., Yale, 1955
Strauch, Berish — New York
A.B., Columbia, 1955
Strehan, Theodore Leonard — Leonia,
A.B., Fordham, 1955
Tegtmeyer, Gamber Frederick — Milwaukee,
A.B., Kenyon, 1955

f, Gerasim — New York City
B., Columbia, 1955

betzkoy, Marina — New York City
B., Vassar, 1955

ika, Edward — Hillside, N.J.
B., Hamilton, 1955

ace, Seymour — New York City
B., Columbia, 1954

h, Alexander Ashley, Jr. — Cincinnati, Ohio
B., Princeton, 1955

ns, Charles E. — Washington, D.C.
B., Yale, 1955

Wender, Paul Herbert — New York City
A.B., Harvard, 1955

Wheeler, Leonard, Jr. — Cambridge, Mass.
A.B., Harvard, 1955

Widrow, David Richard — Versailles, Conn.
A.B., Yale, 1954

Wilson, George Campbell, Jr. — Norwich, Conn.
A.B., Yale, 1955

Wolf, Sheldon Mark — Brooklyn, N.Y.
A.B., Columbia, 1955

Wosnitzer, Maclyn Elliott — Newark, N.J.
A.B., Dartmouth, 1955

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STUDENTS ACCEPTED FOR THE CLASS OF 196C

Alling, Stearly — Montclair, N.J.
Wellesley

Anderson, John Joseph — Cleveland Heights, Ohio
Williams

Anderson, Richard Arnold — Greenwich, Conn.
Wesleyan

Anderson, Richard Dawson — Birmingham, Ala.
Birmingham Southern

Beller, Barry Maurice — New York City
Columbia

Blumenthal, Jesse Arthur — Brooklyn, N.Y.
Columbia

Bradley, Edward B. — Utica, N.Y.
Hamilton

Braun, Peter — Bridgeport, Conn.
Yale

Brownlee, William Harry — Charlotte, N.C.
Davidson

Callan, Desmond — Brooklyn, N.Y.
Columbia

Canellos, George Peter — East Boston, Mass.
Harvard

Choy, Martin Frank — Jersey City, N.J.
Yale

Clark, Julian Joseph — Brooklyn, N.Y.
Princeton

Clutz, Richard Baker — St. Davids, Pa.
Princeton

Coffey, Edward Lyman — Westfield, N.J.
Princeton

Cohen, Michael Irwin — New York City
Columbia

Cohen, Peter Jacob — New York City
Princeton

Cummings, Dean Winfred — Plains, Mont.
Montana State

Dede, Renee Marilyn — New York City
New York University

Denner, Joseph Leroy — Alva, Okla.
Westminster

Dennick, Leonard Gainsworth, Jr. — Hamburg, N.Y.
Colgate

DeSimone, Arthur Robert — Glendale, N.Y.
Manhattan

Doherty, Richard Arthur — Newport, Me.
Amherst

Dolganos, Ellen Marie — Jersey City, N.J.
Vassar

Downey, James Lewis — Darien, Conn.
Yale

Doyle, George B. — Worcester, Mass.
Harvard

Duncan, William Yeats, III — New Haven, Conn.
Yale

Eddison, Grace Gene — Wellesley Hills, Mass.
Wellesley

Ehrmann, Norbert August — Toms River, N.J.
Princeton

Emde, Robert Newcomb — Katonah, N.Y.
Dartmouth

Fabrega, Horacio, Jr. — Boston, Mass.
Pennsylvania

Forker, George Norman — Pittsburgh, Pa.
Yale

Forwand, Stanley Arthur — New York City
Union

Ginsberg, Joel — Brooklyn, N.Y.
Princeton

Glezen, John Marcena — Cortland, N
Hamilton

Glinsmann, Walter Henry — Bronxville, N
Columbia

Goldfinger, Stephen Edward — Brooklyn, N
Princeton

Goldstein, Malcolm — Forest Hills, N
Columbia

Graham, Paul Albert — Wheeling, W
Princeton

Hanson, Kenneth Charles — Watertown, S
St. Olaf

Harvey, Seth — New York
Princeton

Heimarck, Gregory James — Edina, M
St. Olaf

Heller, Stanley Samuel — New York
Yale

Hersh, Evan Manuel — New York
College of the City of New York

Hicks, William Ray — Winnetka,
Princeton

Hilsen, Rosalind Constance — New York
College of the City of New York

Hollander, Joshua — New York
Columbia

Holsclaw, Douglas S., Jr. — Tucson, A
Arizona

Hoppin, Frederic Gallatin, Jr. — Huntington, N
Harvard

Howes, Edward Lee, Jr. — Dobbs Ferry, N
Yale

Janin, Matthew Joel — New York
Columbia

Johnson, John Richard — Quaker City, C
Ohio

Kallen, Roland Gilbert — Newark, N
Amherst

Kao, Priscilla M. N. — Singapore, Cl
Pennsylvania

Kaufman, Roger Stuart — Monroe, N
Princeton

Keller, Howard Irving — Plainfield, N
Princeton

King, Donald Latham — San Marino, C
Stanford

Klein, Herbert Alan — Upper Montclair, N
Columbia

Knebel, Ruthmary S. — Canaan, N
Mt. Holyoke

Korhammer, Alan Francis — Mt. Vernon, N
Princeton

Kott, Stephen — Verona, N
Michigan

Kroll, Arnold Joseph — Jersey City, N
Princeton

Kronfeld, Peter Paul — Wilmette,
Wesleyan

Leach, Charles Nelson — Newfane,
Amherst

Lehwalder, Laurus Waldemar — Butte, M
Oregon State

Lennon, Arthur Joseph — New York
Fordham

MacLean, Neil Murdo — Byram, C
Hamilton

MacLowry, James Don — Buffalo, N
Yale

:s, Lester Barry — New York City
;consin
elsohn, Ora — New York City
nard
;an, Richard Scott — Richmond, Ind.
o
, Sandra Louise — New York City
nard
f, Saul Victor — Reading, Pa.
e
, Alfred Joel — New York City
on
n, Michael Kenneth — Brooklyn, N.Y.
umbia
ardt, Robert George — Pelham Manor, N.Y.
e
aus, Ted Maurice — Amarillo, Tex.
e
Mary Beatrice — Berkeley, Calif.
rthwestern
, Harvey Ronald — Brooklyn, N.Y.
oklyn
heim, Joost Joe — New York City
umbia
bo, Stanley Robert — Brooklyn, N.Y.
vard
Audrey Shields — New York City
rthmore
s, Paulding — Philadelphia, Pa.
verford
, Ronald Chester — Brooklyn, N.Y.
umbia
s, Jonathan Henry — Brooklyn, N.Y.
herst
er, George Franklin — Springfield, Mass.
sleyan
, Alan Charles — Hollis, N.Y.
eens
, Richard — Clearwater, Fla.
vard
, Herbert Faulkner, Jr. — Forest Hills, N.Y.
nceton
rds, Ernest Carter — Rye, N.Y.
e
ns, Robert C. K. — New York City
e
ns, Jay Howard — Woodmere, N.Y.
vard

Roman, Theodore Presley — Rosholt, S.D.
Dakota Wesleyan
Rowland, Christopher V., Jr. — Reedsville, Pa.
Princeton
Rucker, Charles Monroe — Flagstaff, Ariz.
Arizona
Sachs, John Richard — Brooklyn, N.Y.
Manhattan
Salot, William Harry — Mt. Clemens, Mich.
Amherst
Scham, Stewart Marvin — Yonkers, N.Y.
New York
Schuh, Fredric DeGraw — Teaneck, N.J.
Trinity
Schwartz, Elias — Brooklyn, N.Y.
Columbia
Seto, Dexter, S. Y. — Honolulu, T.H.
Kenyon
Smith, Lloyd DuBois, Jr. — Oakdale, Calif.
California
Smith, Richard Stanton — Laconia, N.H.
Wesleyan
Sorger, Martin Lawrence — Newark, N.J.
Hamilton
Stanley, George Richard — Lawton, Okla.
Oklahoma
Stassa, George — Forest Hills, N.Y.
Columbia
Suarez, John Michael — New York City
Columbia
Swinton, Neil Williams, Jr. — Waban, Mass.
Haverford
Temple, William Edward — Ridgewood, N.J.
Columbia
Touloukian, Robert James — New York City
Columbia
Troupin, Allan Stuart — Geneva, Switzerland
Columbia
Trunnell, Thomas Lowry — Kirksville, Mo.
Wisconsin
Urschel, William Powell — Bowling Green, Ohio
Princeton
Weiss, Bernard — Forest Hills, N.Y.
Columbia
Wolfe, David Emery — Seattle, Wash.
Columbia

CONDENSED ACADEMIC CALENDAR

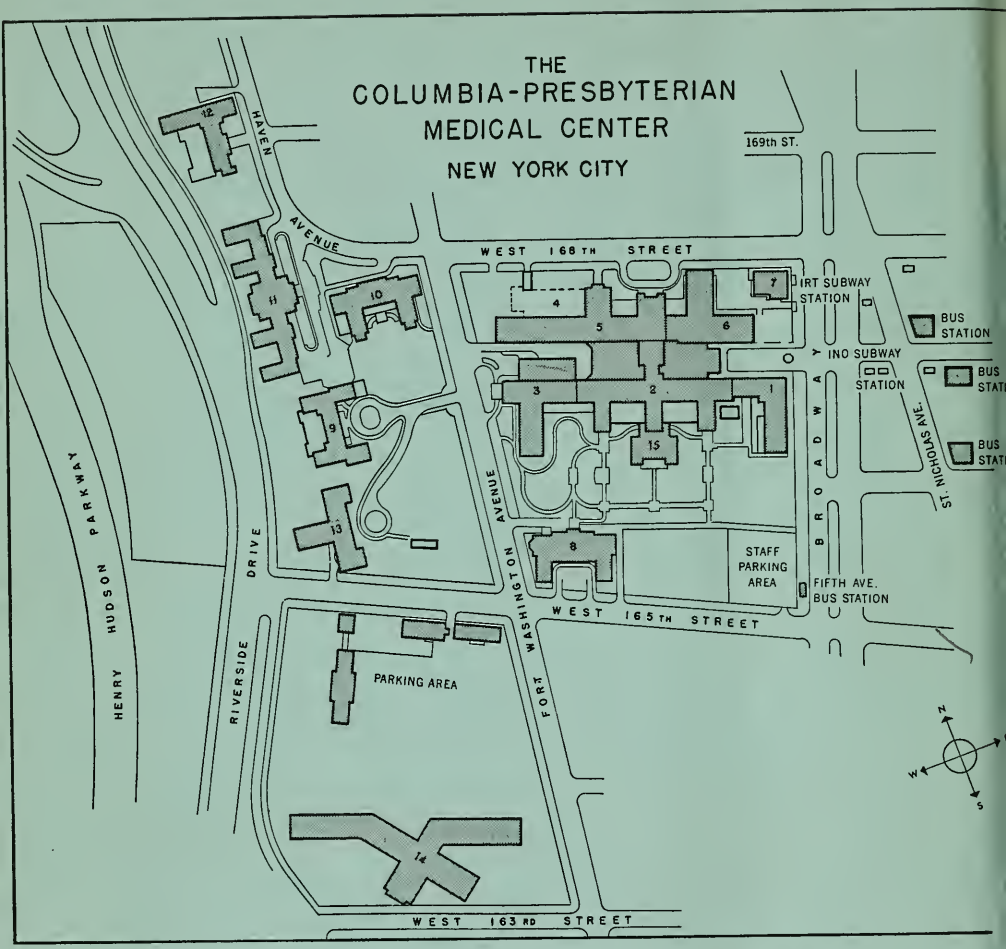
'he complete Academic Calendar for the year 1956–1957 may be obtained from the ecretary of the University.

1956

Iay	24	Thursday, through May 25, Friday. Registration (including payment of fees) for the Third- and Fourth-Year Classes.
une	4	**Monday. New academic year begins for the Third- and Fourth-Year Classes.**
ugust	1	Wednesday. Last day for filing application or renewal of application for all degrees and certificates to be conferred in October. The privilege of later application may be granted on payment of a late fee.
eptember	13	Thursday, through September 15, Saturday. Registration (including payment of fees) for First- and Second-Year Classes.
eptember	**17**	**Monday. Classes begin.**
ctober	8	Monday. Last day for filing at the office of the Registrar dissertations previously approved for the degree of Med.Sc.D. to be awarded in October.
ovember	6	Tuesday. Election Day. Holiday.
ovember	22	Thursday. Thanksgiving Day. Holiday.
ecember	1	Saturday. Last day for filing application or renewal of application for all degrees and certificates to be awarded in February. The privilege of later application may be granted on payment of a late fee.
ecember	**24**	**Monday, through**

1957

anuary	**5**	**Saturday. Christmas holidays.**
ebruary	22	Friday. Washington's Birthday. Holiday.
arch	1	Friday. Last day for filing application or renewal of application for all degrees and certificates, except doctoral degrees, to be conferred in June. The privilege of later application may be granted on payment of a late fee.
pril	2	Monday. Last day for filing at the office of the Registrar dissertations for the degree of Med.Sc.D., to be conferred in June.
		Last day for filing Cutting Fellowship applications.
pril	**15**	**Monday, through April 20, Saturday. Easter holidays.**
ay	25	Monday, through June 1, Saturday. Final examinations.
ay	30	Thursday. Memorial Day. Holiday.
une	**4**	**Tuesday. Conferring of degrees.**



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2. PRESBYTERIAN HOSPITAL
   N. Y. ORTHOPAEDIC HOSPITAL
   SLOANE HOSPITAL
   SQUIER UROLOGICAL CLINIC
3. HARKNESS PAVILION
4. POWER HOUSE
5. COLLEGE OF PHYSICIANS AND SURGEONS
6. VANDERBILT CLINIC
   SCHOOL OF DENTAL AND ORAL SURGERY
7. N. Y. CITY DEPT. OF HEALTH
   SCHOOL OF PUBLIC HEALTH AND
   ADMINISTRATIVE MEDICINE
8. INSTITUTE OF OPHTHALMOLOGY
9. MAXWELL HALL
10. NEUROLOGICAL INSTITUTE
11. N. Y. STATE PSYCHIATRIC INSTITUTE
12. BARD HALL
13. HARKNESS MEMORIAL HALL
14. FRANCIS DELAFIELD HOSPITAL, N.Y.C.
15. PAULINE A. HARTFORD MEMORIAL CHAPEL

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